

FINLUX

happy Finnish

46in LED TV

46S8030-T



Owner's manual

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Features

- Remote controlled colour LED TV.
- Fully integrated Terrestrial digital-cable TV (DVB-T C- MPEG2) (DVB-T-C MPEG4), DVB-T2.
- 4 HDMI connectors for digital video and audio. This connection is also designed to accept high definition signals.
- 2 USB inputs.
- Programme recording
- Programme timeshifting
- 10.000 programmes.
- OSD menu system.
- Integrated tuner DVB-T-C HD, MPEG 2 / MPEG 4 compatible.
- 2 Scart sockets for external devices (such as video, video games, audio set, etc.).
- Teletext, Fasttext, TOP text.
- Headphone connection.
- Automatic programming system.
- Forward or backward manual tuning.
- Sleep timer / Child lock.
- Automatic sound mute when no transmission.
- NTSC playback.
- AVL (Automatic Volume Limiting).
- Auto power down.
- PLL (Frequency Search).
- PC input.
- Plug&Play for Windows 98, ME, 2000, XP, Vista, Windows 7.
- Ethernet (LAN) for Internet connectivity and service
- Picture Off function.
- 802.11n WIFI Support (Optional)
- DLNA
- MMH+IPlayer
- 100 Hz.

Introduction

Please read the corresponding instructions of this handbook prior to the first usage of the device, even when the usage of electronic devices is familiar to you. Notice especially the chapter SAFETY PRECAUTIONS. Carefully keep the handbook as future reference. When selling the device or giving it away, absolutely give these direction for use.

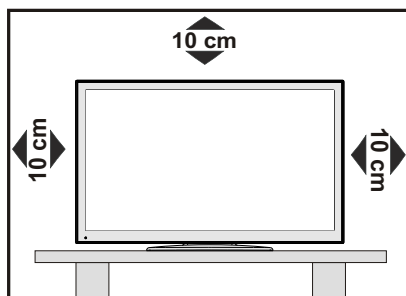
Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual thoroughly. Please do keep this manual in a safe place for future references.



This device is intended to receive and display TV programs. The different connection options make an additional expansion of the reception and display sources possible (receiver, DVD player, DVD recorder, VCR, PC etc.). This device is only suitable for the operation in dry interiors. This appliance is intended solely for private domestic use and may not be used for industrial and commercial purposes. We exclude liability in principle, if the device is not used as intended, or unauthorized modifications have been made. To operate your LED TV in extreme ambient conditions may cause the damage of the device.

Preparation

For ventilation, leave a free space of at least 10 cm all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set. Use this device in moderate climates.



Safety Precautions

Please read the following recommended safety precautions carefully for your safety.

Power Source

The TV set should be operated only from a 220-240 V AC, 50 Hz outlet. Ensure that you select the correct voltage setting for your convenience.

Power Cord

Do not place the set, a piece of furniture, etc. on the power cord (mains lead) or pinch the cord. Handle the power cord by the plug. Do not unplug the appliance by pulling from the power cord and never touch the power cord with wet hands as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be placed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electric shock. When it is damaged and needs to be replaced, it should be done by qualified personnel.

Moisture and Water

Do not use this device in a humid and damp place (avoid using the TV in the bathroom or near the Kitchen sink etc). Do not expose this device to rain or water, as this may be dangerous and do not place objects filled with liquids, such as flower vases, on top. Avoid from dripping or splashing.

If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

Cleaning

Before cleaning, unplug the TV set from the wall outlet. Do not use liquid or aerosol cleaners. Use soft and dry cloth.

Ventilation

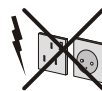
The slots and openings on the TV set are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

Heat and Flames

The set should not be placed near to open flames and sources of intense heat such as an electric heater. Ensure that no open flame sources, such as lighted candles, are placed on top of the TV. Batteries should not be exposed to excessive heat such as sunshine, fire or the like.

Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.



Replacement Parts

When replacement parts are required, make sure that the service technician has used replacement parts, which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock or other hazards.

Servicing

Please refer all servicing to qualified personnel. Do not remove the cover yourself as this may result in an electric shock.



Waste Disposal

- Instructions for waste disposal:
- Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.
- Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used battery in an environment friendly manner. Find out about the legal regulations which apply in your area. Don't try to recharge batteries. Danger of explosion. Replace batteries only with the same or equivalent type.
- Cold cathode fluorescent lamp in LED PANEL contains a small amount of mercury; please follow the local laws or regulations for disposal.

Information for Users in European Union Countries

This symbol on the product or on its packaging means that your electrical and electronic device should be disposed at the end of its service life separately from your household wastes. There are separate collection systems for recycling in EU.



For more information, please contact the local authority or the dealer where you purchased the product.

Disconnecting the Device

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable.

Headphone Volume

Excessive sound pressure from earphones and headphones can cause hearing loss.



Installation

To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions when mounted to the wall (if the option is available).

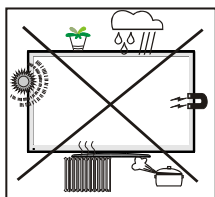
LCD Screen

The LCD panel is a very high technology product with over 6 million thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point. Please note that this does not affect the performance of your product.

Connection to a Television Distribution System (Cable TV etc.) from Tuner

Device connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing-and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard.

Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11).

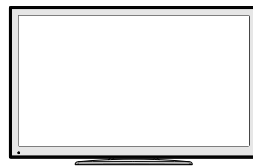


Electrical device not in the hands of children

Never let children use electrical device unsupervised. Children can't always recognize properly the possible dangers. Batteries / accumulators can be life threatening when swallowed. Store batteries unreachable for small children. In case of swallowing a battery medical aid has to be sought immediately. Also keep the packaging foils away from children. There is danger of suffocation.

The Standby / On button doesn't separate this device completely from mains. Moreover the device consumes power in the standby operation. In order to separate the device completely from mains, the mains plug has to be pulled from the mains socket. Because of that the device should be set up in a way, that an unobstructed access to mains socket is guaranteed, so that in case of emergency the mains plug can be pulled immediately. To exclude the danger of fire, the power cord should principally be separated from the mains socket prior to a longer period of non-usage, i.e. during vacations.

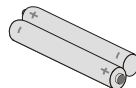
Package Contents



LED TV



Remote Control



Batteries: 2 X AAA



Instruction Book



USB Wifi Dongle



1 X Video & Audio Connection Cable

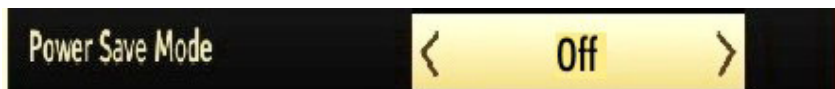


Nero media home CD

Note: You should check the accessories after purchasing. Make sure that each accessory is included.

Environmental Information

- This television is designed to consume less energy to save environment. You not only help to save the environment but also you can save money by reducing electricity bills thanks to the energy efficiency feature of this TV. To reduce energy consumption, you should take the following steps:
- You can use Power Save Mode setting, located in the Picture Settings menu. If you set Power Save Mode as **Eco**, the TV will switch to energy-saving mode and luminance level of TV set will be decreased to optimum level. Note that some picture settings will be unavailable to be changed when the TV is in Power Save Mode.



- If you set power save mode as Picture off, a message will appear on the screen and backlight will be off within three seconds. Press any button on the remote controller to activate the picture again.
- When the TV is not in use, please switch off or disconnect the TV from the mains plug. This will also reduce energy consumption.
- Disconnect power when going away for longer time.
- It is highly recommended to activate Power Save Mode setting to reduce your annual power consumption. Also it is recommended to disconnect the TV from the mains plug to save energy more when you do not use.
- Please help us to save environment by following these steps.

Repair Information

Please refer all servicing to qualified personnel. Only qualified personnel must repair the TV. Please contact your local dealer, where you have purchased this TV for further information.

Remote Control Buttons

1. Activate Portal mode (*)
2. Play (in Media Browser mode)
3. Programme recording
4. Fast rewind (in Media Browser mode)
5. No function
6. Mono/Stereo - Dual I-II / Current Language (*) / Play preview (in Media Browser mode)
7. Image size
8. Teletext / Mix
9. Electronic Programme Guide
10. Numeric buttons
11. AV / Source
12. Menu on/off
13. Programme Down - Page up / Programme Up - Page down
14. Back to previous menu
15. Green button
16. Red button
17. Media Browser
18. My Button 1(**)
19. My Button 2(**)
20. Info / Reveal (in TXT mode)
21. Blue button
22. Yellow button
23. Exit (in DTV mode) / Return / Index page (in TXT mode)
24. OK / Select / Hold (in TXT mode) / Channel List
25. Volume up / down
26. Navigation buttons
27. Mute
28. Previous programme / Now (in EPG mode)
29. Sleep timer
30. Favourite mode selection
31. Picture mode selection / Changes picture mode (in Media Browser video mode)
32. Subtitle on-off / TXT subtitle (analogue TV mode) / Subtitle (in Media Browser mode).
33. No function
34. Fast forward (in Media Browser mode)
35. Stop (in Media Browser mode)
36. Pause / Timeshift recording
37. Standby
38. Operation LED light

(*) Please refer to Portal TV section to learn how to use remote control while in portal TV function.

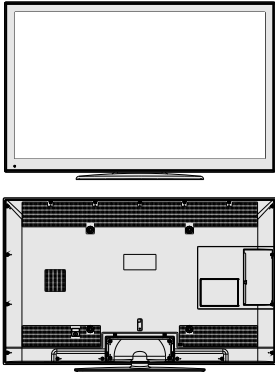
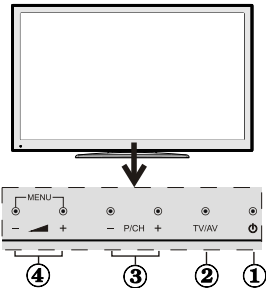




(*) **Using My button 1:** This button's main function is to run Youtube link. However, if you want to change this function, you can press MY BUTTON 1 for five seconds when on a desired source, channel or link, until the "MY BUTTON IS SET" message is displayed on the screen. This confirms that the selected MY BUTTON

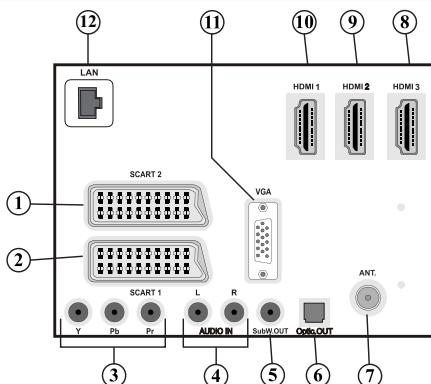
is now associated with the selected function. Note that if you perform first time installation, MY BUTTON 1 will return to its default function

(**) **Using My Button 2 :** Press MY BUTTON 2 for five seconds when on a desired source, channel or link, until the "MY BUTTON IS SET" message is displayed on the screen. This confirms that the selected MY BUTTON is now associated with the selected function.

LED TV and Operating Buttons

FRONT and REAR VIEW	Control buttons VIEW	Control Buttons
		<ol style="list-style-type: none"> 1. Standby/On button 2. TV/AV button 3. Programme Up/Down buttons 4. Volume Up/Down buttons <p>Note: Press “ ” and “ ” buttons at the same time to view main menu.</p>

Viewing the Back side Connections



- SCART 2** inputs or outputs for external devices.
- SCART 1** inputs or outputs for external devices. Connect the SCART cable between SCART socket on the TV and SCART socket on your external device (such as a decoder, a VCR or a DVD player).
Note: If an external device is connected via the SCART socket, the TV will automatically switch to AV mode.
- Component Video Inputs (YPbPr)** are used for connecting component video. You can connect the component video and audio sockets with a device that has component output. Connect the component video cables between the **COMPONENT VIDEO INPUTS** on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, “Y”, “Pb”, “Pr” correspond with your device’s connectors.
- PC/YPbPr Audio Inputs** are used for connecting audio signals of a PC or a device that connects to the TV via YPbPr. Connect the PC audio cable between the **AUDIO INPUTS** on the TV and audio output of your PC to enable PC audio. Connect the audio cable between **AUDIO INPUTS** on the TV and audio outputs of your device to enable component audio.
- Subwoofer Out** is for connecting an external, active subwoofer to the set to give a much deeper bass effect. Use an appropriate RCA cable to connect the set to a subwoofer unit.
- S/PDIF Digital Out** outputs digital audio signals of the currently watched source. Use a digital optic cable to transfer audio signals to a device that has S/PDIF input.

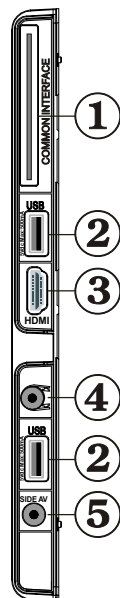
7. **RF Input** connects to an aerial or cable antenna system.
Note that if you use a decoder or a media recorder, you should connect the aerial cable through the device to the television with an appropriate antenna cable, as shown in the illustration in the following pages.
8. **HDMI 3: HDMI Input**
9. **HDMI 2: HDMI Input**
10. **HDMI 1: HDMI Input**
HDMI Inputs are for connecting a device that has an HDMI socket. Your LED TV is capable of displaying High Definition pictures from devices such as a High Definition Satellite receiver or Blu Ray Player. These sockets can receive a number of different resolutions. Please see Appendix B for all compatible resolutions.
11. **PC Input** is for connecting a personal computer to the TV set.
Connect the PC cable between the **PC INPUT** on the TV and the PC output on your PC
12. Ethernet input (for service and Internet connectivity)

Viewing the Connections - Side Connectors

1. CI Slot is used for inserting a CI card. A CI card allows you to view all the channels that you subscribe to. For more information, see "Conditional Access" section.
2. Side USBs
Note that programme recording feature is available via these USB inputs. You can connect external hard disk drives to this input.
3. Side HDMI Input is for connecting a device that has an HDMI socket.
4. Headphone jack is used for connecting an external headphone to the system. Connect to the HEADPHONE jack to listen to the TV from headphones (optional).
5. **Side audio-video connection** input is used for connecting video and audio signals of external devices. To make a video connection, you must use the supplied AV connection cable for enabling connection. First, plug singular jack of the cable to the TV's Side AV socket. Afterwards, insert your video cable's (not supplied) connector into the YELLOW input (located on the plural side) of the supplied AV connection cable. Colours of the connected jacks should match.

To enable audio connection, you must use RED and WHITE inputs of the side AV connection cable. Afterwards, insert your device's audio cable's connectors into the RED and WHITE jack of the **supplied** side AV connection cable. Colours of the connected jacks should match.

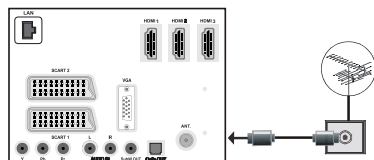
Note: You should use audio inputs of side AV connection cable (RED & WHITE) to enable sound connection when connecting a device to your TV by using PC or COMPONENT VIDEO input.



Antenna Connection

Aerial/Cable Connection

- Connect the aerial or cable TV plug to the AERIAL INPUT socket located at the rear of the TV.



Using USB Inputs

USB Connection

- You can connect a USB hard disk drive or USB memory stick to your TV by using the USB inputs of the TV. This feature allows you to play files stored in a USB drive or record programmes.
- 2.5" and 3.5" inch (hdd with external power supply) external hard disk drives are supported.
- If one or more partitions of your hard drive are exFAT formatted, none or less partitions might be visible, even if they are formatted with a different file system than exFAT.
- To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.

IMPORTANT !

- You may back up your files before making any connections to the TV set in order to avoid any possible data loss. Note that manufacturer will not be responsible for any file damage or dataloss.
- It is possible that certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this TV.

IMPORTANT: The TV supports only FAT32 and NTFS disk formatting. However, NTFS format is not supported for recording features. For recording, if you connect a USB disk with NTFS format, the TV will ask you to format the content. See the section, "Format Disk" in the following pages for more information on disk formatting.

Note that ALL the data stored on the USB disk will be lost and then the disk format will be converted to FAT32 in such a case.

USB Disk Connection

- Plug your USB device to the USB input of the TV.

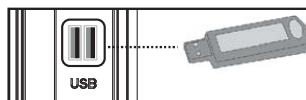
Note: Plug or unplug your USB disk while the TV is switched off.

Note: If you are going to connect a USB hard disk drive to the TV set, USB connection cable used between

the disk drive and the TV should have a USB logo and should be as short as possible.

Note: While formatting a USB hard disk that has 1TB (Tera Byte) or more file capacity, you can experience problems with the formatting process. In such a case, you should format the disk with your personal computer and the formatted disk type should be FAT32.

SIDE VIEW USB MEMORY



CAUTION !

- Quickly plugging and unplugging USB devices, is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the drive. This may cause physical damage to the USB player and especially the USB device itself.
- Do not pull out USB module while playing or recording a file.

Programme Recording

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature.

IMPORTANT: When using a new USB hard disk drive, it is recommended that you first format the disk using your TV's "Format Disk" option.

- For using recording function, you should connect a USB disk or an external hard disk drive to the TV and connected USB disk should have at least 1 GB capacity and should have 2.0 speed compatibility. If the connected USB device does not support 2.0 speed, an error message will be displayed.

Note: Recorded programmes are saved into the connected USB disk. If desired, you can store/copy recordings on a computer; however, these files will not be available to be played on a computer. You can play the recordings only via your TV.

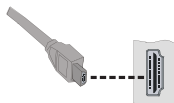
- For more information on recording programmes, see sections "Instant Recording", "Timeshifting", "Electronic Programme Guide", "Recordings" or "Recording Timers" in the following parts.
- Recorded programmes are split into 4GB partitions.
- Recorded programmes are stored in the following directory of the connected USB disk: \DVR\RECS. All recordings are indicated with a number. A text (txt) file is created for each recording. This text file includes information such as broadcaster, programme, and recording time.

- Timeshifting may be stopped according to USB device write speed. If the USB device speed is not enough for video stream bitrate, timeshifting may be stopped and recording may fail. If HD service bitrate is greater than 13 Mbps/sec, some freeze can be seen during timeshifting on both USB disk and on external HDD.
- Recordings of HD programmes can occupy bigger size on the USB disk depending on the broadcast's resolution. For this reason it is recommended to use USB hard disk drives for recording HD programmes.
- Do not plug out the USB/HDD during the recording. This may harm the connected USB/HDD.
- Multipartition support is available. Maximum two different partitions are supported. If the disk have more than two partitions, crash may occur. First partition of the usb disk is used for PVR ready features. It also must be formatted as primary partition to be used for PVR ready features.
- Some stream packets may not be recorded because of signal problems, so sometimes video may freezes during playback.
- Record, Play, Pause, Display (for PlayListDialog) keys could not be used when teletext is ON. If a recording starts from timer when teletext is ON, teletext is automatically turned off. Also teletext usage is disabled when there is ongoing recording or playback.
- Radio record is not supported.
- The Tv can record programmes up to ten hours.
- For USB-recording function (when HD broadcast is being recorded), please use a USB-harddisk. A USB-stick cannot be used for this function.

Side HDMI Connection

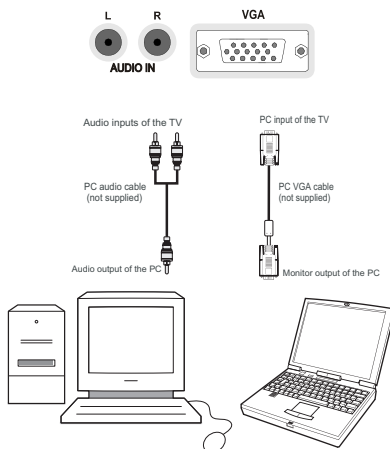
You can use side HDMI input to connect a device that has an HDMI connector to your TV. Use an appropriate HDMI cable to make such a connection. Note that you should switch to the HDMI source to view the content from the connected device. Power off both the TV and the device before making any connections. Side HDMI Input supports connections between HDMI devices such as DVD players. You can use side HDMI input of the TV to connect to an external HDMI device. Use an HDMI cable to connect.

HDMI DEVICE SIDE VIEW



Connecting the LED TV to a PC

For displaying your computer's screen image on your LED TV, you can connect your computer to the TV set. Power off both computer and display before making any connections. Use 15-pin D-sub display cable to connect a PC to the LED TV. Use a PC audio cable between the audio output of your PC and the audio input of the TV to enable the playback of sound through your TV. When the connection is made, switch to PC source. See "Input selection" section. Set the resolution that suits your viewing requirements. Resolution information can be found in the appendix parts.



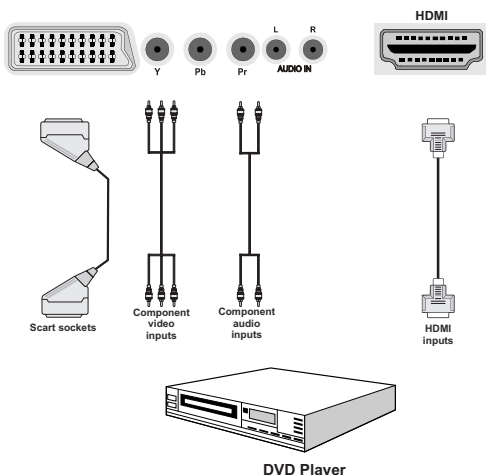
Connecting to a DVD Player

If you want to connect a DVD player to your LED TV, you can use connectors of the TV set. DVD players may have different connectors. Please refer to your DVD player's instruction book for additional information. Power off both the TV and the device before making any connections.

Note: Cables shown in the illustration are not supplied.

- If your DVD player has an HDMI socket, you can connect via HDMI. When you connect to DVD player as illustrated below, switch to HDMI source. See, "Input Selection" section.
- Most DVD players are connected through COMPONENT SOCKETS. Use a component video cable to connect video input. For enabling audio, use a component audio cable as illustrated below. When the connection is made, switch to YPbPr source. See, "Input selection" section.
- You may also connect through the SCART 1 or SCART 2. Use a SCART cable as shown below.

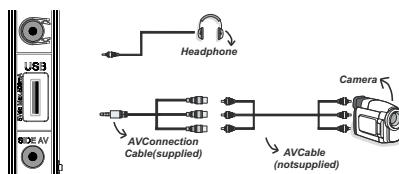
Note: These three methods of connection perform the same function but in different levels of quality. It is not necessary to connect by all three methods.



Using Side AV Connectors

You can connect a range of optional equipment to your LED TV using side connectors of the TV.

- For connecting a camcorder or camera, you should use **SIDE AV** socket (side). To do this, you must use the supplied **video/audio connection cable**. First, plug single jack of the cable to the TV's **AV IN** socket (side). Afterwards, insert your camera cable's (not supplied) connectors into the plural part of the **video/audio connection cable**. Colours of the connected jacks should match. See illustration below.
- Afterwards, you should switch to **AV IN** source. See the section **Input selection** in the following sections for more information.

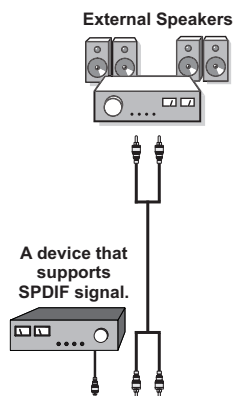


- To listen to sound from the TV on headphones, you should connect headphones to your TV by using the HEADPHONES Jack.

Using Other Connectors

You can connect a range of optional equipment to your LED TV. Possible connections are shown below. Note that cables shown in the illustration are not supplied.

- For connecting a to a device that has SPDIF support, use an appropriate SPDIF cable to enable sound connection.

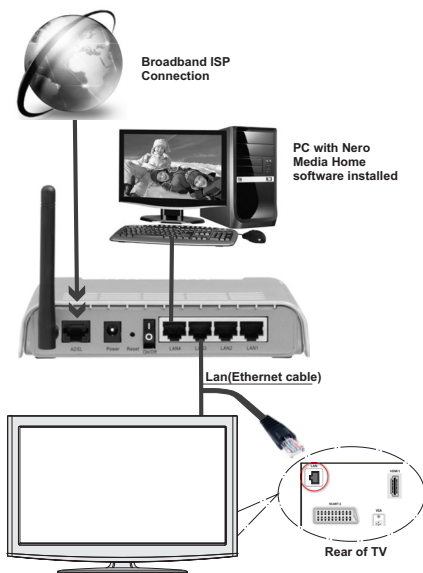


Connecting to a Wired Network (Optional)

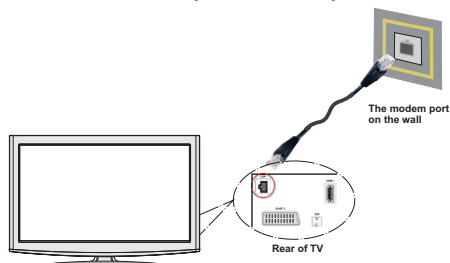
For connecting to a wired LAN network, you should perform the following steps:

- Connect broadband ISP connection ethernet cable to the ETHERNET INPUT of your modem.
- Ensure that Nero Media Home software is installed to your PC.(for DLNA function). See Appendix F for more information on the installation process.
- Afterwards, you should connect your PC to the one of your modem's LAN connectors (e.g. LAN 1) by using an Ethernet Cable.
- Use another LAN output of your modem (e.g. LAN 2) to enable the connection to your TV. You can add your TV to your LAN by connecting the LAN port at the rear of your TV to your modem's LAN connector as illustrated below.
- To access and play shared files, you must Select Media Browser. Press Menu button and select Media Browser by using Left or Right button. Press OK to continue. Select the desired file type and press OK. You must always use the Media Browser screen to access and play shared network files.
- PC/HDD/Media Player or any other devices that are DLNA 1.5 compatible should be used with wired connection for higher playback quality.

To configure wired settings please refer Network Settings section in Settings menu.



- You might be able to connect your TV to your LAN network depending on your network's configuration. In such a case, use an ethernet cable to connect your TV directly to the network wall outlet.



Connecting to a Wireless Network (Optional)

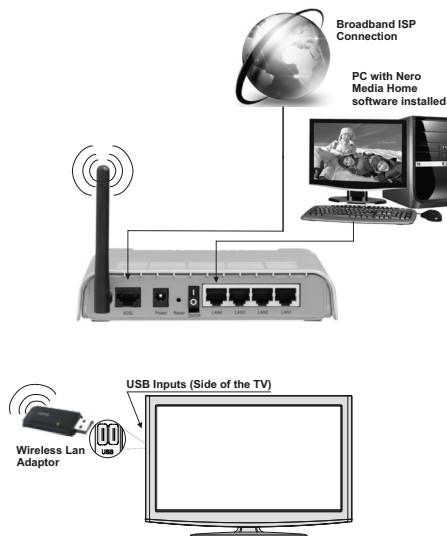
IMPORTANT: “Veezy 100” USB dongle is required to use wireless network feature.

To use your TV with your wireless network, you need a “Veezy 100” Wireless USB dongle. To make your modem’s SSID visible, you should change your SSID settings via modem’s software. The TV cannot connect to the networks with hidden SSID.

For connecting to a wireless LAN network, you should perform the following steps:

- Connect broadband ISP connection ethernet cable to the ETHERNET INPUT of your modem.
- Ensure that Nero Media Home software is installed to your PC. (for DLNA function).
- Afterwards, you should connect wireless adaptor to one of the USB inputs of the TV.

To configure wireless settings please refer Network Settings section in Settings menu.



- A Wireless-N router (IEEE 802.11a/b/g/n) with simultaneous 2.4 and 5 GHz bands designed to increase bandwidth. Optimized for smoother and faster HD video streaming, file transfers, and wireless gaming.
- Use LAN connection for quicker file sharing between other devices like computers.
- The frequency and channel differ depending on the area.
- The transmission speed differs depending on the distance and number of obstructions between the transmission products, the configuration of these products, the radio wave conditions, the line traffic, and the products that you use. The transmission may also be cut off or get disconnected depending on the radio wave conditions DECT phones, or any other WiFi 11b appliances. The standard values of the transmission speed are the theoretical maximum values for the wireless standards. They are not the actual speeds of data transmission.
- The location where the transmission is most effective differs depending on the usage environment.
- Wireless LAN adaptor should be connected directly to the TV’s USB port. USB hubs are not supported.
- To configure wireless settings please refer wifi section in Settings menu.
- Wireless LAN adaptor supports 802.11 a,b,g & n type modems. It is highly recommended that you should use IEEE 802.11n communication protocol in order to avoid any possible problems while watching videos.
- Use the other usb input, if you experience problems with audio/video performance.
- You must change your modem’s SSID when there are any other modems around with the same SSID. You can encounter connection problems otherwise. Use wired connection instead if you experience problems with wireless connection.

Remote Control Handset

Inserting Batteries

- Remove the battery cover located on the back of the handset by gently pulling backwards from the indicated part.
- Insert two **AAA/R3** or equivalent type batteries inside. Observe the correct polarity (+/-) when inserting batteries and replace the battery cover.



Note: Remove the battery from remote control handset when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries. Remote range is approximately 7m/23ft.


Power Connection

IMPORTANT: The TV set is designed to operate on 220-240V AC, 50 Hz socket.


- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

Switching On/Off

To Switch the TV On

- Connect the power cord to the 220-240V AC, 50 Hz socket.
- To switch on the TV from standby mode either:
- Press the “” button, **P+ / P-** or a numeric button on the remote control.
- Press the **-P/CH** or **P/CH+** touch button on the TV.

To Switch the TV Off

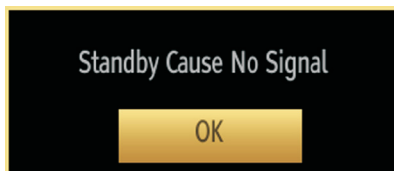
- Press the “” button on the remote control or press the **STANDBY** touch button on the TV, so the TV will switch to standby mode.
- **To power down the TV completely, unplug the power cord from the mains socket.**

Note: When the TV is switched to standby mode, the standby LED can blink to indicate that features such

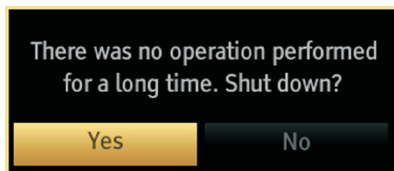
as *Standby Search*, *Over Air Download* or *Timer* is active. The LED can also blink when you switch on the TV from standby mode.

Standby Notifications

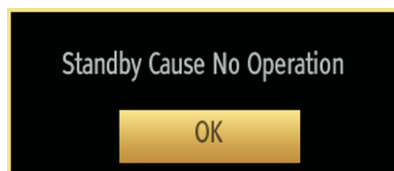
If the TV switches off while in No Signal mode, the following on-screen message will be displayed on the next switch-on:




When the Auto Tv Off timeout is reached, the following message will be displayed on the screen. Select YES to shut down the TV. Select NO to cancel. The TV will switch off as well, if you do not make a selection on this screen.



If the TV switches off owing to the auto power down feature, the following on-screen message will be displayed on the next switch-on:





Digital Teletext (*)

- Press the “” button.
- The digital teletext information appears.
- Operate it with the coloured buttons, cursor buttons and **OK** button.

The operation method may differ depending on the contents of the digital teletext.

Follow the instructions displayed on digital teletext screen.

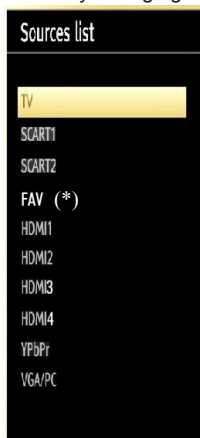
- When Press “**OK**” button or similar message appears on the screen, press the OK button.
- When the “” button is pressed, the TV returns to television broadcasting.
- With digital broadcasting (DVB), in addition to digital teletext broadcasting together with the normal broadcasting, there are also channels with just digital teletext broadcasting.

- The aspect ratio (picture shape) when watching a channel with just digital teletext broadcasting is the same as the aspect ratio of the picture viewed previously.
- When you press the “” button again, the digital teletext screen will be displayed.

(*) If available in your country

Input Selection

Once you have connected external systems to your TV, you can switch to different input sources. Press “**SOURCE**” button on your remote control consecutively for directly changing sources.





(*) **FAV** source option will switch to the device connected via the SIDE AV socket.

You can operate your TV using both the remote control and onset buttons.

Operation with the Buttons on the TV





Volume Setting

- Press “” button to decrease volume or  button to increase volume, so a volume level scale (slider) will be displayed on the screen.

Programme Selection

- Press “**P/CH +**” button to select the next programme or “**P/CH -**” button to select the previous programme.

Viewing Main Menu

- Press the “/”/”  +” button at the same time to view main menu. In the Main menu select the sub-menu using “**AV**” button and set the sub-menu using “” or “ +” buttons. To learn the usage of the menus, refer to the menu system sections.

AV Mode

- Press the “**AV**” button in the control panel on the TV to switch between AV modes.

Operation with the Remote Control

- The remote control of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Volume Setting

- Press “**V+**” button to increase the volume. Press “**V-**” button to decrease the volume. A volume level scale (slider) will be displayed on the screen.

Programme Selection (Previous or Next Programme)

- Press “**P -**” button to select the previous programme.
- Press “**P +**” button to select the next programme.





Programme Selection (Direct Access)

- Press numeric buttons on the remote control to select programmes between 0 and 9. The TV will switch to the selected programme. To select programmes between, press the numeric buttons consecutively. When the pressing time is due for the second numeric button, only the first digit programme will be displayed. Press directly the programme number to reselect single digit programmes.

***Note:** If the background is transparent, on screen texts will be slightly transparent as well.*

Viewing Electronic Programme Guide (EPG)

You can view the electronic programme guide (EPG) to view information about available programmes. To view the **EPG** menu please press **EPG** button on the remote control.

- Press “”/” ” buttons to navigate through channels.
- Press “”/” ” buttons to navigate through the programme list.
- **EPG** menu displays available information on all channels.
- Please note that event information is updated automatically. If there are no event information data available for channels, **EPG** will be displayed with blanks.




OK (Options): Views/records or sets timer for future programs.

INFO (Event Details): Displays the programmes in detail.

Green button: Programme schedule will be listed

Yellow button: Display EPG data in accordance with timeline schedule

Blue button (Filter): Views filtering options.

 (RECORD): the TV will start to record the selected programme. You can press again to stop the recording.

—EPG List schedule—



Red button (Prev Time Slice): Displays the programmes of previous time slice.

Green button (Next Time Slice): Displays the programmes of the next time slice.

Yellow button (Prev Day): Displays the programmes of previous day.


Blue button (Next day): Displays the programmes of the next day.

Text button (Filter): Views filtering options.

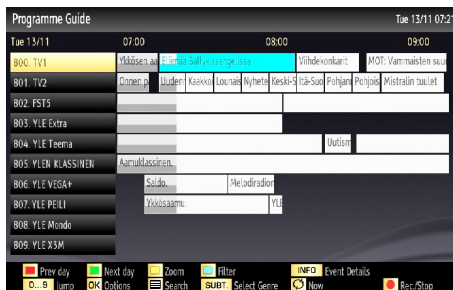
Numeric buttons (Jump): Jumps to the preferred channel directly via numeric buttons.

OK (Options): Views/records or sets timer for future programs.

INFO (Event Details): Displays the programmes in detail.

 (RECORD): the TV will start to record the selected programme. You can press again to stop the recording.

—Timeline schedule—



Red button (Prev Day): Displays the programmes of previous day.

Green button (Next day): Displays the programmes of the next day.

Yellow button (Zoom): Expands programme information.

Blue button (Filter): Views filtering options.

INFO (Event Details): Displays the programmes in detail.


Numeric buttons (Jump): Jumps to the preferred channel directly via numeric buttons.

OK (Options): Views/records or sets timer for future programs.

Text (Search): Displays “Guide Search” menu.


SUBTTL: Press **SUBTITLE** button to view Select Genre menu. Using this feature, you can search the programme guide database in accordance with the genre. Info available in the programme guide will be searched and results matching your criteria will be listed.

 (Now) : Shows the current programme.

 (RECORD): the TV will start to record the selected programme. You can press again to stop the recording.

Recording via EPG Screen

IMPORTANT: To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.

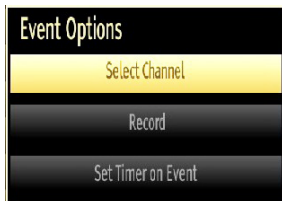
 (RECORD): the TV will start to record the selected programme. You can press again to stop the recording.

Note: Switching to a different broadcast or source is not available during the recording.

  : Page left / Page right.

Programme Options

In EPG menu, press the OK button to enter the “Event Options” menu.



Select Channel

In EPG menu, using this option, you can switch to the selected channel.

Record / Delete Record Timer

IMPORTANT: To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.

- After you have selected a programme in EPG menu, press the **OK** button and **Options** screen will be displayed. Select **Record** option and press the **OK** button. After this operation, a recording becomes set to the selected programme.
- To cancel an already set recording, highlight that programme and press the **OK** button and select the option **Delete Rec. Timer**. The recording will be cancelled.

Note: You cannot switch to any other channel or source while there is an active recording on the current channel.

Set Timer / Delete Timer

After you have selected a programme in EPG menu, press the **OK** button and **Options** screen will be displayed. Select **Set Timer on Event** option and press **OK** button. You can set a timer for future programmes.

To cancel an already set reminder, highlight that programme and press the **OK** button. Then select **Delete Timer** option. The timer will be cancelled.

Note: It is not possible to record or set timer for two or more individual events at the same time interval.

First Time Installation

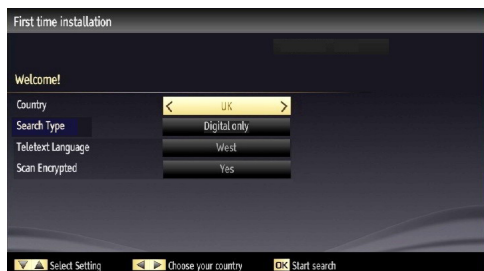
IMPORTANT: Ensure that the aerial or cable is connected and a Common Interface module is not inserted before switching on the TV for the first time installation.

Do not insert a common interface module during the search process.

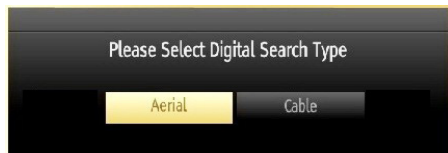
- When the TV is operated for the first time, installation wizard will guide you through the process. First, language selection screen will be displayed:



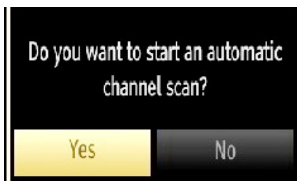
- Use “▼” or “▲” buttons to select your language and press **OK** button to set selected language and continue.
- After selecting the language, “Welcome!” screen will be displayed, requiring you to set **Country**, **Search Type**, **Teletext Language** and **Scan Encrypted** options.



- By pressing “▼” or “▲” button, select the **country** you want to set and press “▼” button to highlight **Search Type** option. Use “◀” or “▶” to set the desired search type. Available search types are digital only, analog TV only and full.
- When set, press “▼” to select **Teletext Language**. Use “◀” or “▶” to select the desired **Teletext Language**.
- Press “▼” button after setting Teletext Language option. **Scan Encrypted** will be then highlighted. You can set **Scan Encrypted** as **Yes** if you want to scan coded stations.
- Press **OK** button on the remote control to continue and the following message will be displayed on the screen:



If you select **CABLE** option and press **OK** button on the remote control to continue, the following message will be displayed on the screen:

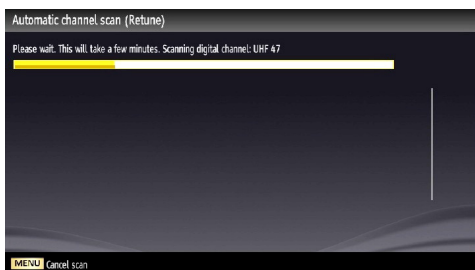


To continue please select YES and press OK. To cancel operation, select NO and press OK.



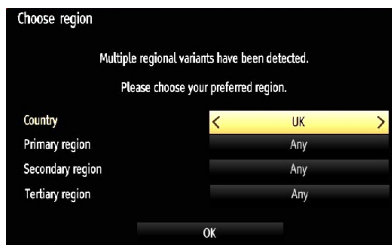
You can select frequency ranges from this screen. For highlighting lines you see, use “▼” or “▲” button. You can enter the frequency range manually by using the numeric buttons on the remote control. Set Start and Stop Frequency as desired by using numeric buttons on the remote control. After this operation, you can set Search Step as 8000 KHz or 1000 KHz. If you select 1000 KHz, the TV will perform search process in a detailed way. Searching duration will thus increase accordingly. When finished, press OK button to start automatic search.

If you select AERIAL option from the Search Type screen, the television will search for digital terrestrial and analogue TV broadcasts.

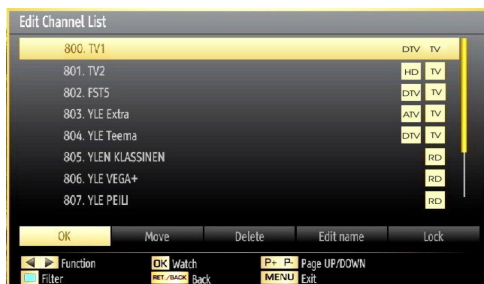


Note: You can press “MENU” button to cancel.

End of the search process, **Choose Region** menu screen will be displayed (if any multiple region variants are detected). Please select country and region choice then press **OK** to continue.



- After all the available stations are stored, Channel List will be displayed on the screen. If you like the sort channels, according to the LCN, please select “Yes” and then press “OK”.



- Press **OK** button to quit channel list and watch TV.

Auto Tuning

HINT: Auto tuning feature will help you to retune the TV set in order to store new services or stations.

Press “MENU” button on the remote control and select **Installation** by using “◀” or “▶” button. Press **OK** button and the following menu screen will be displayed.



Select **Automatic Channel Scan (Retune)** by using “▼”/“▲” button and press **OK** button. **Automatic Channel Scan (Retune)** options will be displayed. You can select options by using “▼”/“▲” and **OK** buttons.

Auto Channel Scan Menu Operation

Digital Aerial: Searches and stores aerial DVB stations.

Digital Cable: Searches and stores cable DVB stations.

Analogue: Searches and stores analogue stations.

Digital Aerial & Analogue: Searches and stores both analogue and aerial DVB stations.

Digital Cable & Analogue: Searches and stores both analogue and cable DVB stations.

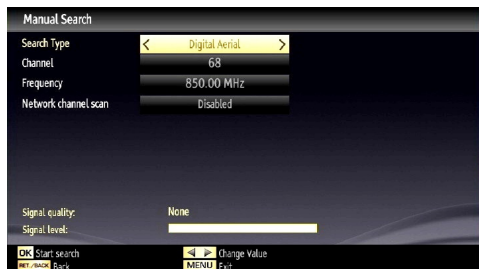
- Whenever you select an automatic search type and press **OK** button, a confirmation screen will appear on the screen. To start installation process, select **Yes**, to cancel select **No** by using “◀” or “▶” and **OK** button.
- After auto channel scan type is set and selected and confirmed, installation process will start and progress bar will move along. Press “**MENU**” button to cancel process. In such a case, located channels are not stored.

Manual Tuning

HINT: This feature can be used for direct broadcast entry.

- Select **Manual Channel Scan** from the Installation menu by using “▼”/“▲” and **OK** buttons. Manual Scan options screen will be displayed.
- Select the desired **Search Type** using “◀” or “▶” button. Manual search options will change accordingly. Use “▼”/“▲” button to highlight an item and then press “◀” or “▶” button to set an option. You can press “**MENU**” button to cancel.

Digital Aerial Manual Search

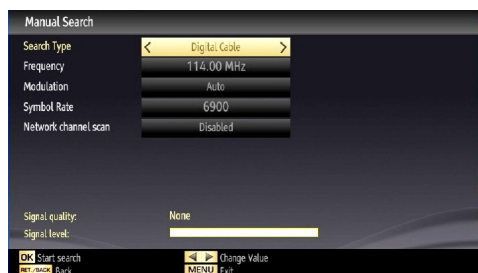


In manual channel scan, the number of the multiplex or frequency are entered manually and only that multiplex or frequency are searched for the channels. After selecting search type as **Digital Aerial**, you can enter the multiplex or frequency number using the numeric buttons and press **OK** button to search.

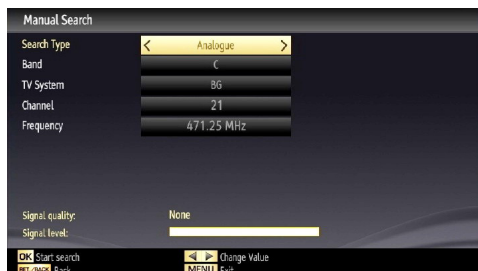
Digital Cable Manual Search

In cable manual scan, you can enter frequency, modulation, symbol rate and network channel scan options. After selecting search type as Digital Cable,

you can set the desired options and press **OK** button to search.



Analogue Manual Search



After selecting search type as analogue, you can use “▼”/“▲” button to highlight an item and then press “◀” or “▶” button to set an option.

Enter the channel number or frequency using the numeric buttons. You can then press **OK** button to search. When the channel is located, any new channels that are not on the list will be stored.

Network Channel Scan

Select Network Channel Scan from the installation menu by using “◀” or “▶” and **OK** buttons. Network Channel Scan selection screen will be displayed. Select Digital Aerial or Digital Cable and press **OK** button to continue. The following message will be asked. Select **Yes** to continue or select **No** to cancel.



If you start Digital Aerial scan process, automatic scanning will start. You can press “**MENU**” button to cancel.

If you start Digital Cable scan process, the following screen will be displayed.



You can select frequency ranges from this screen. For highlighting lines you see, use “▼” or “▲” button. You can enter the frequency range manually by using the numeric buttons on the remote control. Set Start and Stop Frequency as desired by using numeric buttons on the remote control. After this operation, you can set Search Step as 8000 KHz or 1000 KHz. If you select 1000 KHz, the TV will perform search process in a detailed way. Searching duration will thus increase accordingly. When finished, press OK button to start automatic search. Automatic searching screen will be displayed during the process.

Note: If you select an extended gap between Start and Stop frequency rate, automatic search duration will take a longer time.

Analog Fine Tune

- Select **Analog Fine Tune** from the Installation menu by using “▼” or “▲” and **OK** buttons. **Analog Fine Tune** screen will be displayed. **Analog Fine Tune** feature will not be available if there are no analog channels, digital channels and external sources stored.
- Press **OK** button to proceed. Use “◀” or “▶” button to set Fine Tune. When finished, press **OK** button again.

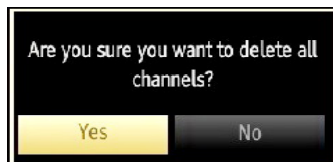
First Time Installation

If you want to delete all channels and settings please select **First Time Installation** and press OK. The TV's memory will be deleted and installation progress starts.

Clear Service List (*)

(*) This setting is visible only when the Country option is set to Denmark, Sweden, Norway or Finland.

Use this setting to clear channels stored. Press “▼” or “▲” button to select Clear Service List and then press OK. The following OSD will be displayed on the screen:

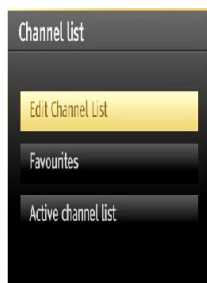


Select YES and press OK to continue or select NO and press OK button to cancel.

Managing Stations: Channel List

The TV sorts all stored stations in the Channel List. You can edit this channel list, set favourites or set active stations to be listed by using the Channel List options.

- Press “MENU” button to view main menu. Select Channel List item by using “◀” or “▶” button. Press **OK** to view menu contents.



Select **Edit Channel List** to manage all stored channels. Use “▼” or “▲” and **OK** buttons to select Edit Channel List.

Channel List Types

You can set channel list type function to display desired types of available channels.



RED: Lists only digital aerial and analogue broadcasts.

GREEN: Lists only digital cable and analogue broadcasts.

OK: Watch selected.

MENU: Exits.

BLUE: Displays filtering options.

Operating the Channel List



- Press “▼” or “▲” button to select the channel that will be processed. Press “◀” or “▶” button to select a function on Channel List menu.
- Use **P+/P-** buttons to move page up or down.
- Press **BLUE** button to view filtering options.
- Press “**MENU**” button to exit.

Note: The channels listed are mixed at the channel list. Channel types can be differentiated by the icons next to them: DTV (digital tv), HD (HD TV), ATW (Analogue TV), TV (TV), RD (Radio), encrypted, lock, and at the favourite list.

Listed channels can also be sorted by using the active channel list filter.

Moving a Channel

- First select the desired channel. Select Move option in the channel list and press **OK** button.
- Edit Number screen will be displayed. Enter the desired channel number by using the numeric buttons on the remote control. If there is a previously stored channel on that number, a warning screen will be displayed. Select Yes if you want to move the channel and press **OK**.
- Press **OK** button to process. Selected channel is now moved.

Deleting a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag channel.

- Select the channel that you want to delete and select **Delete** option. Press **OK** button to continue.
- A warning screen will appear. Select **YES** to delete, select **No** to cancel. Press **OK** button to continue.

Renaming a Channel

- Select the channel that you want to rename and select **Edit Name** option. Press **OK** button to continue.
- Pressing “◀” or “▶” button moves to the previous/next character. Pressing “▼” or “▲” button toggles the current character, i.e., ‘b’ character becomes ‘a’ by “▼” and ‘c’ by “▲”. Pressing the numeric buttons

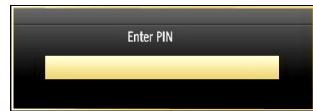
‘0...9’ replaces the highlighted character with the characters printed above the button one by one as the button is pressed.

- When finished, press **OK** button to save. Press “**MENU**” to cancel.

Locking a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag a single channel.

- Select the channel that you want to lock and select **Lock** option. Press **OK** button to continue.
- You will be asked to enter parental control PIN. Default PIN is set as **0000**. Enter the PIN number.



- Press **OK** button when the desired channel is highlighted to lock/unlock the channel. Lock symbol will be displayed next to the selected channel.

Channel List Filter

Channel list filtering option can be set as desired. Use filter to set channels as TV only, Radio only and Text only. If encrypted channel are not listed, you can as set free by using **CAS/free** feature. You can jump to the related channels by using A-Z options. You can sort channels alphabetically by using Sort option. You can customize channel list by using all this feature.

Managing Stations: Favourites

You can create a list of favourite programmes.

- Press “**MENU**” button to view main menu. Select Channel List item by using “◀” or “▶” button. Press **OK** to view menu contents.
- Select **Favourites** to manage favourite list. Use “▼”/“▲” and **OK** buttons to select **Favourites**.
- You can set various channels as favourites so that only the favourite channels are navigated.



- Select a channel by using “▼” or “▲” button. Press **OK** button to add selected channel to favourites list. Press **OK** button again to remove.

Button Functions

- **OK:** Add/remove a station.
- **YELLOW:** Tag/untag a channel.
- **GREEN:** Tag/untag all channels.
- **BLUE:** Displays filtering options.

When a channel is added to the favourite list, you can press **FAV** button while watching TV in order to navigate only through your favourite channels with **P+/P-** button.

Press **FAV** button again to navigate through all channels again.

Note: In the channel list, always all channels will be shown.

Managing Stations: Sorting Channel List

You can select broadcasts to be listed in the channel list. To display specific types of broadcast, you should use Active Channel List setting.

Select Active Channel List from the Channel list menu by using “◀” or “▶” button. Press **OK** button to continue.

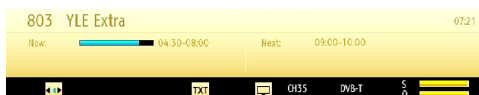


You can choose an active channel list from the list by using “▼” / “▲” and **OK** buttons.

Broadcast Type (optional): When you set the desired broadcast type by using “◀” or “▶” button, the TV will display the related channel list. If the related source has does not include any stored channels, “No channels for this type have been found.” message will be displayed on the screen.

On-Screen Information

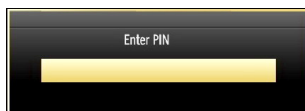
You can press “**INFO**” button to display on-screen information. Details of the station and current programme will be displayed on the information banner.



The information banner gives information on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number.

Hint: Not all channels broadcast the programme data. If the name and time of the programme are not available, then information banner will be displayed with blanks.

If the selected channel is locked, you must enter the correct four-digit numeric code to view the channel (default code is **0000**). “**Enter PIN**” will be displayed on the screen in such a case:



Media Playback Using Media Browser

If the USB stick is not recognized after power off/on or First Time Installation, first, plug the USB device out and power off/on the TV set. Plug the USB device in again.

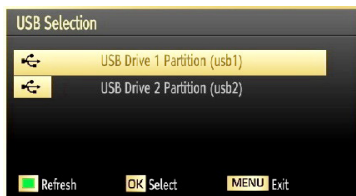
To display Media Browser window, press either “**MENU**” button on the remote control and then select Media Browser by pressing “◀” or “▶” button. Press **OK** button to continue. Media Browser menu options will be displayed.

Also, when you plug USB devices, media browser screen will be displayed automatically:



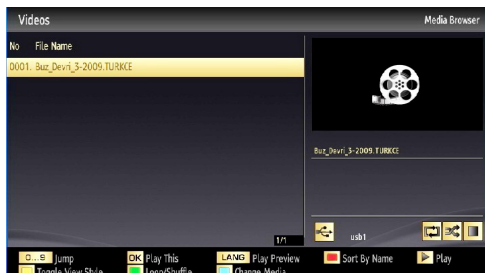
You can play music, picture and video files from the connected USB memory stick. Use “◀” or “▶” button to select Videos, Photos, Music, Recordings or Settings.

You can connect two USB devices to your TV. If both USB devices include music, picture or video files, USB selection OSD will be displayed on the screen. The first USB device connected to the TV will be named as USB Drive1.



Select a device by using “▼” or “▲” button and press OK.

Viewing Videos via USB



When you select Videos from the main options, available video files will be filtered and listed on this screen. You can use “▼” or “▲” button to select a video file and press **OK** button to play a video. If you select a subtitle file and press **OK** button, you can select or deselect that subtitle file. The following menu will be displayed while playing a video file:



Play (▶ button): Starts the video playback.

Stop (■ button): Stops the video playback.

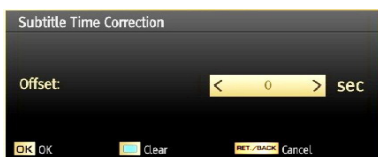
Pause (|| button): Pause the video playback.

Rewind (◀◀ button): Goes backward.

Forward (▶▶ button): Goes forward.

Subtitle/Audio (LANG. button): Sets subtitle/Audio.

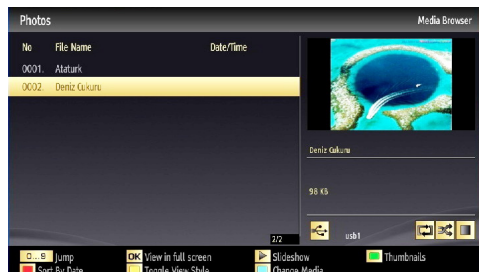
Yellow: Opens subtitle time correction menu



Press **BACK** button to switch back to previous menu.

Viewing Photos via USB

When you select Photos from the main options, available image files will be filtered and listed on this screen.



Jump (Numeric buttons): Jump to selected file using the numeric buttons.

OK: Views the selected picture in full screen.

Slideshow (▶ button): Starts the slideshow using all images.

RED: Sorts files by date.

GREEN: Views images in thumbnails.

BLUE: Switch between music,photo,video and all

YELLOW: Change view style

Slideshow Options



Pause (|| button) : Pauses the slideshow.

Continue (▶ button) : Continues the slideshow.

Previous/Next (Left/Right buttons): Jumps to previous or next file on slideshow.

Rotate (Up/Down buttons): Rotates the image using up/down buttons.

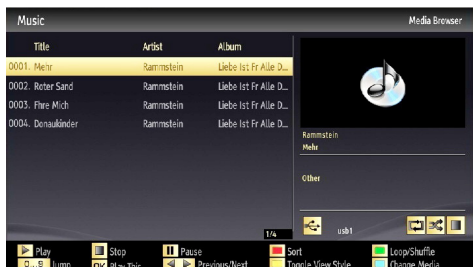
Loop/Shuffle (GREEN button): Press once to disable Loop. Press again to disable both Loop and Shuffle. Press once more to enable only Shuffle. Press again to enable all. You can follow the disabled functions with the change of the icons.

BACK (Exit): Back to file list.

INFO: Displays help screen.

Playing Music via USB

When you select Music from the main options, available audio files will be filtered and listed on this screen.



0.9 (Jump): When you press a digit button displays textual file search.

Play This (OK button) : Plays the selected file.

Play (▶ button) : Plays all media files starting with the selected one.

Stop (■ button): Stops playback.

Pause (|| button): Pauses the selected playback.

Previous/Next (Left/Right buttons): Jumps to previous or next file to play.

RED: Sorts files by Title, Artist or Album.

Loop/Shuffle (GREEN button): Press once to disable Loop. Press again to disable both Loop and Shuffle. Press once more to enable only Shuffle. Press again to enable all. You can follow the disabled functions with the change of the icons.

Note:

If you start the playback with the ▶ button and activate the [] symbol, the TV will play the next music/video file. The playback will proceed accordingly and when the end of the list is reached, it will be played again from the beginning (loop function).

If you start the playback with the OK button and activate the [] symbol, the same music or video file will be played in a loop (repeat function).

If you start the playback with ▶ or OK button and activate the [] symbol, music or video file will be played in a shuffle.

If you start the playback with ▶ or OK button and activate [], [] symbols, music or video file playback will continue randomly and the random playback will continue.

BLUE: Switch between music,photo,video and all.

YELLOW: Change view style.

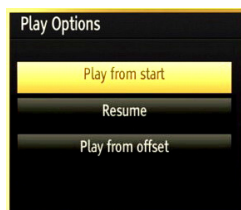
Recordings

In the main menu, use “◀” or “▶” buttons to select Media Browser. Highlight Recordings item by using “◀” or “▶” button and press OK button to enter. Recordings will then be displayed.

IMPORTANT: To view Recordings, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.



Select a recorded item from the list (if previously recorded) by using “▼” / “▲” button. Press OK button to view **Play Options**. Select an option by using “▼” / “▲” or OK buttons.



Available playback options:

- Play from start: Plays the recording from the beginning.
- Resume: Recommences the recordings.
- Play from offset: Specifies a playing point.

Note: Viewing main menu and menu items will not be available during the playback.

Press ■ (STOP) button to stop a playback and return to return to Recordings.

Slow Forward

If you press || (PAUSE) button while watching recorded programmes, slow forward feature will be available. You can use ►► button to slow forward. Pressing ►► button consecutively will change slow forwarding speed

Media Browser Settings



You can set your Media Browser preferences by using the Settings dialog. Press “▼” or “▲” button to highlight an item and use “◀” or “▶” button to set.

View Style: Sets default browsing mode.

Music FF/FR Speed: Sets Music FF/FR Speed time.

Slide Show Interval: Sets slide show interval time.

Show Subtitle: Sets subtitle enabling preference.

Subtitle Language: Sets supported subtitle language.

Subtitle Position: Sets subtitle position as up or down.

Subtitle Font Size: Sets subtitle font size (max. 54pt).

Timeshift Recording

IMPORTANT: To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.

- Press **II**(PAUSE) button while watching a broadcast for switching to timeshifting mode.

- In timeshifting mode, the programme is paused and simultaneously recorded to the connected USB disk (*). Press **▶**(PLAY) button again to watch the paused programme from the stopped moment.

- This playback is performed in x1 playback speed. You will see the timeshift gap between the real and the timeshifted programme in the info bar.

- Use **◀/▶** (PREVIOUS/NEXT) buttons to move forward or backward on timeshift playback. When the timeshift is reached, timeshifting mode will be quitted and you will switch back to watching normal broadcast.

- Press **■** (STOP) button to quit timeshifting mode.

(*) Simultaneous timeshifting recording's duration depends on your connected USB disk's file size and defined Max. Timeshift in the Recordings Configuration menu. See the section, “Recordings” for more information on setting Max. Timeshift.

Note: Switching to a different broadcast or source; and viewing main menu are not available during the timeshifting.

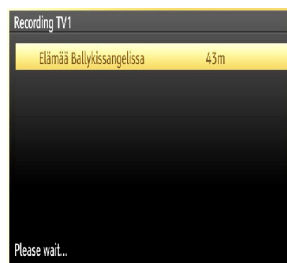
Lip Sync delay may occur during the timeshifting.

Standby button is ignored during the timeshifting. The TV will not switch to standby mode during the timeshifting.

Instant Recording

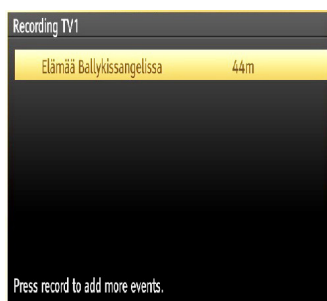
IMPORTANT: To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.

- Press **●** (RECORD) button to start recording an event instantly while watching a programme. The following OSD appears on the screen:

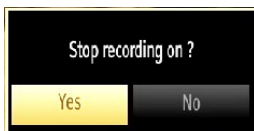


- Record OSD will then be displayed for a short time and the current event will be recorded.

- You can press **●** (RECORD) button on the remote control again to record the next event on the EPG. In this case, OSD will display the programmed events for recording.



Press **■** (STOP) button to cancel instant recording. The following OSD will be displayed:



Select Yes by using “◀” or “▶” / **OK** buttons to cancel instant recording.

Note: Switching to a different broadcast or source; and viewing Media Browser are not available during the recording.

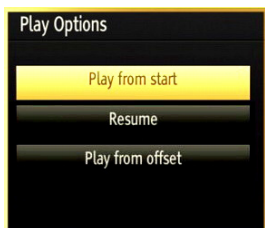
Watching Recorded Programmes

In the main menu, use “◀” or “▶” buttons to select Media Browser. Highlight Recordings item by using “◀” or “▶” button and press OK button to enter. Recordings will then be displayed.

IMPORTANT: To view Recordings, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available.



Select a recorded item from the list (if previously recorded) by using “▼”/“▲” button. Press **OK** button to view **Play Options**. Select an option by using “▼”/“▲” or OK buttons.



Available playback options:

- Play from start: Plays the recording from the beginning.
- Resume: Recommences the recordings.
- Play from offset: Specifies a playing point.

Note: Viewing main menu and menu items will not be available during the playback.

Press ■ (STOP) button to stop a playback and return to return to Recordings.

Slow Forward

If you press **II** (PAUSE) button while watching recorded programmes, slow forward feature will be available. You can use **▶▶** button to slow forward. Pressing **▶▶** button consecutively will change slow forwarding speed.

Using DLNA Network Service

Information

DLNA (Digital Living Network Alliance) is a standard that eases viewing process of digital electronics and makes them more convenient to use on a home network. For further information, visit www.dlna.org.

DLNA standard allows you to view and play photos, music and videos stored in the DLNA media server connected to your home network.

Step 1: Nero Media Home Installation

DLNA function cannot be used if the server program is not install to your PC. Please prepare your PC with the provided Nero Media Home programme. For more information about the installation, please refer to appendix F.

Step 2: Connecting to a Wired or Wireless Network

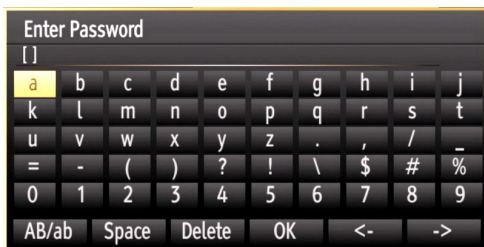
Wired Connection

- Connect your network's LAN cable to the **ETHERNET INPUT** of your TV. Make sure that the preparation of media server, connections and network settings are completed properly (See the chapter, **Network Settings** for more information).

Wireless Connection

IMPORTANT: “Veezy 100” USB dongle is required to use wireless network feature. To use your TV with your wireless network, you need a “Veezy 100” Wireless USB dongle.

- Please plug in the Wi-Fi dongle to one of the USB ports of the TV.
- Select **Network Settings** from the **Settings** menu.
- Press **YELLOW** button to start searching for available wireless networks. If any active wireless networks are found, a list will be displayed.
- Please select your desired network from the list. If the selected network is protected with a password, please enter the correct key by using the virtual keyboard. You can use this keyboard via navigation buttons (Left/Right/Up/Down) and **OK** button on the remote control.



- Wait until the IP address is shown on the screen. This means that the connection is now established.

See the chapter *Network Settings* for detailed configuration information. You can press **BLUE** button to test internet speed.

Step 3: Playing Shared Files via Media Browser

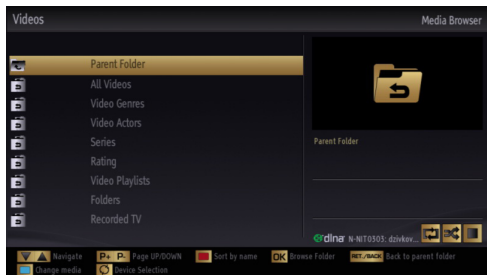
- Select **Media Browser** by using **Left** or **Right** button from the main menu and press **OK** button. Media browser will be then displayed.
- DLNA support is available only with Media Browser folder mode. To enable folder mode, go to **Settings** tab in the main media browser screen and press **OK**. In the settings options, highlight **View Style** and change to **Folder** using **Left** or **Right** button.
- Please select desired media type and press **OK**



- If sharing configurations are set properly, the following OSD message will be displayed after selecting the desired media type. Select **OK** to display selected network or USB memory content. If you want to refresh the device list, press **GREEN** button. You can press **MENU** to exit.



- If available networks are found, they will be listed on this screen.
- Select media server or network that you want to connect by using “▼” or “▲” buttons and press **OK** button.
- If you select media type as **Video** and choose a device from the selection menu, a new menu screen will appear on the screen as below:



- Select **Videos** from this screen to list all the available video files from the selected network.
- To play other media types from this screen, you must go back to main Media Browser screen and select media type as desired and then perform the network selection again (See Step 3).
- Refer to Media Browser USB Playback section for further information on file playback.
- Subtitle files do not work if you watch video from network through DLNA.
- You can connect only one television with DLNA to same network.
- If a problem occurs with DLNA network, please switch on/off your television.
- Trick mode and jump are not supported with DLNA function.

CAUTION:

- There may be some PC's which may not be able to utilize the DLNA function due to administrator and security settings. (such as business PC's).
- For best home network streaming with this set, the supplied Nero software should be installed.

Connecting to your Cell Phone via WiFi (Optional)

- If your cell phone has WiFi feature, you can connect your cell phone to your TV by using WiFi connection via a router, in order to play content from your phone. For this, your cell phone must have an appropriate sharing software.
- Connect to your router following the steps stated above in the Wireless Connection section.
- Afterwards, engage your cell phone with the router and then activate sharing software on your cell phone. Then, select files that you would like to share with your TV.
- If the connection is established correctly, you should now access the shared files of your cell phone via the Media Browser of your TV.
- Enter Media Browser menu and playback device selection OSD will be displayed. Select your cell phone's ident and press **OK** to continue.

Note: This feature may not be supported by some cell phones.

Changing Image Size: Picture Formats

- Programmes can be watched in different picture formats, depending on the transmission received.
- You can change the aspect ratio (image size) of the TV for viewing the picture in different zoom modes.
- Press **"SCREEN"** button repeatedly to change the image size. Available zoom modes are listed below.

Auto

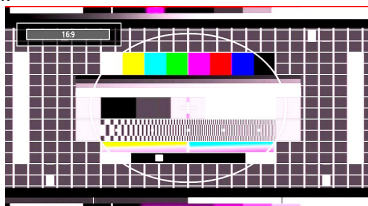
When AUTO is selected, the aspect ratio of the screen is adjusted by the information provided by the selected source(if available)

The format being displayed in AUTO mode is completely independent of WSS information which could be included in the broadcast signal or the signal from an external device.

***Note:** Auto mode only will be available in HDMI, YPbPr and DTV sources.*

16:9

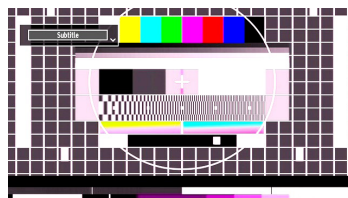
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the **16:9** mode to restore the picture to its original shape.

Subtitle

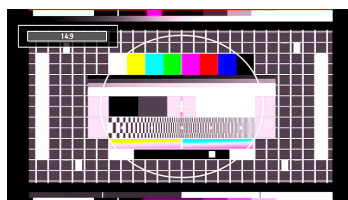
This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



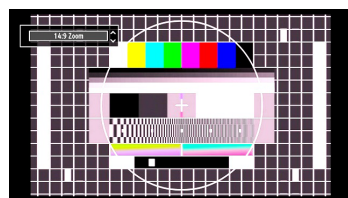
***Note:** You can shift the screen up or down by pressing "▼" / "▲" buttons while picture zoom is selected as 14:9 Zoom, Cinema or Subtitle.*

14:9

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



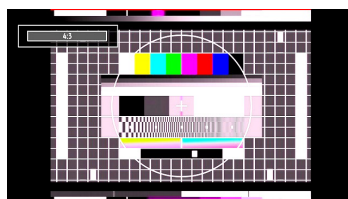
14:9 Zoom



This option zooms to the 14:9 picture.

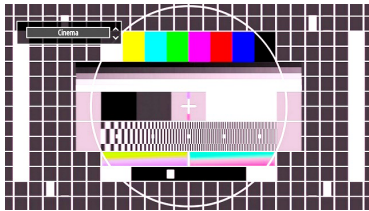
4:3

Use to view a normal picture (4:3 aspect ratio) as this is its original size.



Cinema

This zooms up the wide picture (16:9 aspect ratio) to the full screen.



Configuring Picture Settings

You can use different picture settings in detail.

Press “MENU” button and select the Picture icon by using “◀” or “▶” button. Press OK button to view Picture Settings menu.



Operating Picture Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Use “◀” or “▶” button to set an item.
- Press “MENU” button to exit.

Picture Settings Menu Items

Mode: For your viewing requirements, you can set the related mode option. Picture mode can be set to one of these options: **Cinema**, **Game**, **Dynamic** and **Natural**.

Contrast: Sets the lightness and darkness values of the screen.

Brightness: Sets the brightness value for the screen.

Sharpness: Sets the sharpness value for the objects displayed on the screen.

Colour: Sets the colour value, adjusting the colors.

Power Save Mode: Use “▼” or “▲” button to select Power Save Mode. Press “◀” or “▶” button to set Power Save Mode as Eco, Picture Off and Disabled. See the

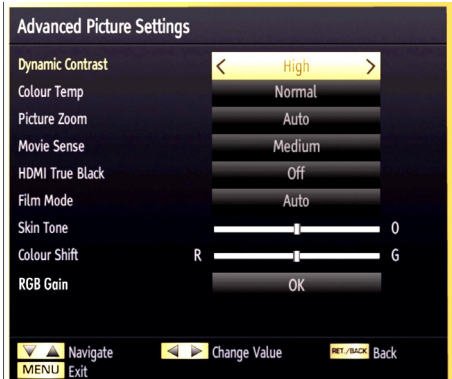
section, “Environmental Information” in this manual for further information on Power Save Mode.

Backlight: This setting controls the backlight level and it can be set to **Low**, **Medium**, **High** and **Auto**.

Noise Reduction: If the broadcast signal is weak and the picture is noisy, use **Noise Reduction** setting to reduce the noise amount. Noise Reduction can be set to one of these options: **Low**, **Medium**, **High** or **Off**.

Advanced Settings

Use “▼” or “▲” button to select advanced settings.



Dynamic Contrast: You can change contrast rate by using dynamic contrast function. Dynamic contrast can be set to one of these options: **Low**, **Medium**, **High** or **Off**.

Colour Temp: Sets the desired colour tone.

Picture Zoom: Sets the picture size to Auto, 16:9, Subtitle, 14:9, 14:9 Zoom, 4:3 or Cinema.

Movie Sense (Detection of movement): When the movie Detection mode is active, the video parameters of the television set will be optimized so that the moving images acquire a better quality and a certain visibility.

Using Detection movie mode

When the option Detection movie is regulated on Weak, Average, High the demo option of the film detection mode is available. If the one of these options is selected and you press the OK button, then the demo mode starts. When the demo mode is active, the screen divides itself in two sections, one displays the activity of the Detection movie mode, the other displaying the normal parameters of the TV screen. To cancel, press the OK key again.

Note: Movement detection is equally effective for broadcastings in 24 images per second.

HDMI True Black (optional): While watching from HDMI source, this feature will be visible in the Picture Settings menu. You can use this feature to enhance blackness in the picture. You can set this feature as “On” for activating HDMI True Black mode.

Note: HDMI True Black On/Off feature functions only when the HDMI device output is set to RGB.

Film mode (optional): Films are recorded at a different number of frames per second to normal television programmes. Press “▼” or “▲” button to select Film Mode. Press “◀” or “▶” button to set this feature On or Off. Turn this feature on when you are watching films to see the fast motion scenes clearly.

Skin tone: Adjust the desired skin tone

Colour Shift: Adjust the desired colour tone.

RGB Gain: You can configure the colour temperature values using the RGB Gain feature.

Reset: Resets the picture settings to factory default settings.

While in VGA (PC) mode, some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to the Picture Settings while in PC mode.

PC Picture Settings

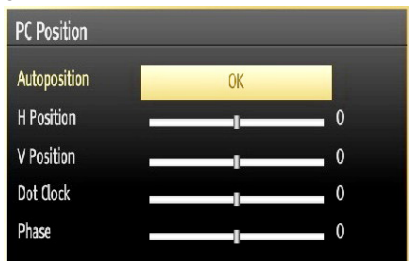
For adjusting PC picture items, do the following:

Press “◀” or “▶” button to select Picture icon. Picture menu appears on the screen.

Contrast, Brightness, Colour, Colour Temp and Picture Zoom and other settings in this menu are identical to settings defined in TV picture menu under “Main Menu System”.

Sound, Settings and Source settings are identical to the settings explained in main menu system.

PC Position: Select this to display PC position menu items.



Autoposition: Automatically optimizes the display. Press **OK** to optimize.

H Position: This item shifts the image horizontally to right hand side or left hand side of the screen.

V Position: This item shifts the image vertically towards the top or bottom of the screen.

Dot Clock: Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

Phase: Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy picture on the screen. In such a case you can use this item to get a clear picture by trial and error method.

Configuring Sound Settings

Sound settings can be configured according to your personal preferences.

Press “**MENU**” button and select the Sound icon by using “◀” or “▶” button. Press **OK** button to view Sound Settings menu.



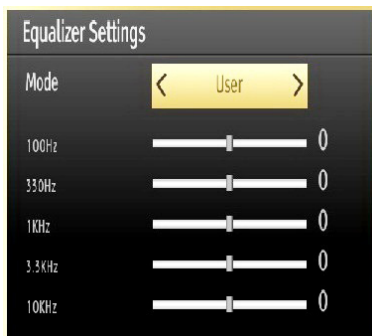
Operating Sound Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Use “◀” or “▶” button to set an item.
- Press “**MENU**” button to exit.

Sound Settings Menu Items

Volume: Adjusts volume level.

Equalizer: Press **OK** button to view equalizer sub-menu.



In Equalizer menu, the preset can be changed to **Music, Movie, Speech, Flat, Classic** and **User**. Press the “**MENU**” button to return to the previous menu.

Note: Equalizer menu settings can be changed manually only when the **Equalizer Mode** is in **User**.

Balance: This setting is used for emphasizing left or right speaker balance.

Headphone: Sets headphone volume.

Sound Mode: You can select Mono, Stereo, Dual I or Dual II mode, only if the selected channel supports that mode.

AVL: Automatic Volume Limiting (AVL) function sets the sound to obtain fixed output level between programmes (For instance, volume level of advertisements tend to be louder than programmes).

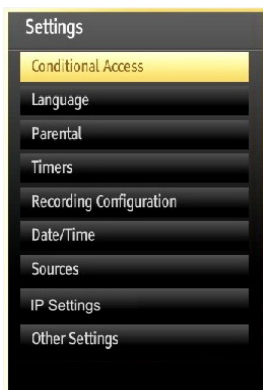
Headphone/Lineout: When you connect an external amplifier to your TV using the headphone jack, you can select this option as Lineout. If you have connected headphones to the TV, set this option as Headphone.

Digital Out: Sets digital out audio type.

Configuring Your TV's Settings

Detailed settings can be configured to suit your personal preferences.

Press "**MENU**" button and select Settings icon by using "**◀**" or "**▶**" button. Press **OK** button to view Settings menu.



Operating Settings Menu Items

- Press "**▼**" or "**▲**" button to highlight a menu item.
- Press **OK** button to select an item.
- Press "**MENU**" button to exit.

Settings Menu Items

Conditional Access: Controls conditional access modules when available.

Language: Configures language settings.

Parental: Configures parental settings.

Timers: Sets timers for selected programmes.

Date/Time: Sets date and time.

Sources: Enables or disables selected source options.

IP Settings: Displays IP Settings screen. **(optional)**

Other Settings: Displays other setting options of the TV set.

Using a Conditional Access Module

IMPORTANT: Insert or remove the CI module only when the TV is **SWITCHED OFF**.

- In order to watch certain digital channels, a conditional access module (CAM) can be necessary. This module must be inserted in the CI slot of your TV.
- Obtain the Conditional Access Module (CAM) and the viewing card by subscribing to a pay channel company, then insert those to the TV using the following procedure.
- Insert the CAM and then the viewing card to the slot that is located in the terminal cover at the rear side of the TV.
- The CAM should be correctly inserted, it is impossible to insert fully if reversed. The CAM or the TV terminal may be damaged if the CAM is forcefully inserted.

Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.

- When no module is inserted, "**No Common Interface module detected**" message appears on the screen.
- Refer to the module instruction manual for details of the settings.

Viewing Conditional Access Menu (*)

() These menu settings may change depending on the service provider.*

Press "**MENU**" button and select the icon by using "**◀**" or "**▶**" button. Press **OK** button to view Settings menu. Use "**▼**" or "**▲**" button to highlight **Conditional Access** and press **OK** to view menu items.

Configuring Language Preferences

You can operate the TV's language settings using this menu.

Press **"MENU"** button and select the Settings icon by using **"◀"** or **"▶"** button. Press **OK** button to view Settings menu. Use **"◀"** or **"▶"** button to highlight **Language** and press **OK** to continue:



Use **"▼"** or **"▲"** button to set an item. Settings are stored automatically.

Menu: displays the system language.

Preferred

These settings will be used if available. Otherwise the current settings will be used.

- **Audio:** Sets the preferred audio language.
- **Subtitle:** Sets the subtitle language. Selected language will be seen in subtitles.
- **Teletext:** Sets teletext language.
- **Guide:** Sets the preferred Guide language.

Current (*)

(*) These settings can be changed if only the broadcaster supports. Otherwise, settings will not be available to be changed.

- **Audio:** Changes the audio language for the current channel.
- **Subtitle:** Sets the subtitle language for the current channel.

Note: If the Country option is set to Denmark, Sweden, Norway or Finland, the Language Settings menu will function as described below:

Language Settings



In the Settings menu, highlight the Language Settings item by pressing **"▼"** or **"▲"** buttons. Press **OK** and Language Settings submenu will be displayed on the screen:

Use **"▼"** or **"▲"** buttons to highlight the menu item that will be adjusted and then press **"◀"** or **"▶"** button to set.

Notes:

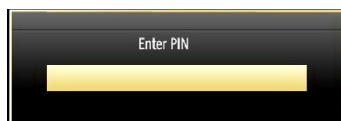
- System Language determines the on-screen menu language.
- Audio Language is used for selecting the soundtrack of a channels.
- Primary settings are the first priority when multiple choices are available on a broadcast. Secondary settings are the alternatives when the first options are not available.

Parental Control

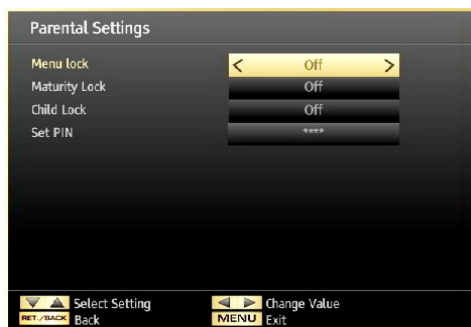
To prohibit viewing of certain programmes, channels and menus can be locked by using the parental control system.

This function enables or disables the menu protection system and allows the PIN code to be changed.

Press **"MENU"** button and select the Settings by using **"◀"** or **"▶"** button. Press **OK** button to view Settings menu. Use **"▼"** or **"▲"** button to highlight **Parental** and press **OK** to continue:



To display parental lock menu options, PIN number should be entered. Factory default PIN number is **0000**. After coding the correct PIN number, parental settings menu will be displayed.



Parental Settings Menu Operation (*)

- Select an item by using “▼” or “▲” button.
- Use “◀” or “▶” button to set an item.
- Press **OK** button to view more options.

(*) If you set Country option as UK in the first time installation, Maturity Lock and Child Lock options will not be visible. This setting is available only for EU countries.

Menu Lock (optional): Menu lock setting enables or disables the menu access. You can disable access to the installation menu or the whole menu system.

Maturity Lock (optional): When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

Child Lock (optional): When Child Lock is set, the TV can only be controlled by the remote control. In this case the control panel buttons will not work, except for the Standby/On button. When Child Lock is activated you are able to switch the TV into Standby mode with the Standby/On button. To switch the TV on again, you need the remote control. Hence, if one of those buttons is pressed, **Child Lock Is On** will be displayed on the screen when the menu screen is not visible.

Set PIN: Defines a new PIN number. Use numeric buttons to enter a new pin number. You will need to code your new PIN a second time for verification purposes.

IMPORTANT: The factory default PIN number is **0000**, if you change the PIN number make sure you write it down and keep it safe.

Note: If you have forgotten the PIN number, you should use the master PIN code, **4725**.

Timers

To view Timers menu, press **MENU** button and select Settings icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight Timers and press **OK** to continue:

Setting Sleep Timer

This setting is used for setting the TV to turn off after a certain time.

- Highlight Sleep Timer by using “▼” or “▲” button.
- Use “◀” or “▶” button to set. The timer can be programmed between **Off** and **2.00** hours (120 minutes) in steps of 30 minutes.

Setting Programme Timers

You can set programme timers for a particular programme using this feature.

Press “▼” button to set timers on an event. Programme timer function buttons will be displayed on the screen.

Adding a Timer

- Press **YELLOW** button on the remote control to add a timer.

Channel: Changes channel by using “◀” or “▶”.

Network Type: This feature is unavailable to be set.

Timer Type: You can select timer type as Record or Timer.

Date: Enter a date using the numeric buttons.

Start: Enter a starting time using the numeric buttons.

End: Enter an ending time using the numeric buttons.

Duration: Displays duration between the starting and ending time.

Repeat: Sets a timer to be repeated as Once, Daily or Weekly. Use “◀” or “▶” buttons to select an option.

Change/Delete: Sets the change/delete permission.

Playback: Sets the playback permission and parental settings.

- Press **GREEN** button to save the timer. Press **RED** button to cancel.

Editing a Timer

- Select the timer you want to edit by pressing “▼” or “▲” button.
- Press **GREEN** button. Edit Timer menu screen will be displayed.
- When finished with editing, press **GREEN** button to save. You can press “MENU” button to cancel.

Deleting a Timer

- Select the timer you want to delete by pressing “▼” or “▲” button.
- Press **RED** button.
- Select **YES** by using “◀” or “▶” buttons to delete the timer. Select **NO** to cancel.

Recording Configuration

Select Recording Configuration item in the Settings menu to configure recording settings. The following menu is displayed for recording configuration.



The following options are available for adjustments:

Start Early (*)

You set recording timer's starting time to start earlier by using this setting.

() Available only for EU country options.*

End Late (*)

You set recording timer's end time to end later by using this settings.

() Available only for EU country options.*

Max Timeshift

This setting allows you to set the maximum time allowed for timeshifting. Duration options are approximate and can change accordingly, depending on the broadcast received. When the Max Timeshift time is reached, auto play will proceed.

Format Disk

IMPORTANT: Note that *ALL* the data stored on the USB disk will be lost and then the disk format will be converted to FAT32 if you activate this feature.

- If you want to delete all files on the connected USB hard disk drive or memory stick, you can use Format Disk option.

- Also, if your USB disk malfunctions, you can try formatting the USB disk. In most cases formatting the USB disk will restore normal operation; however, ALL the data stored on the USB disk will be lost in such a case.

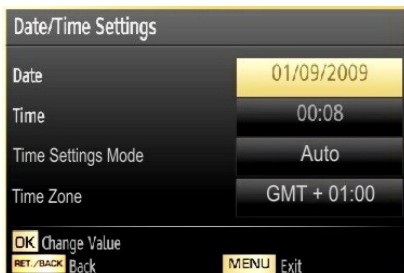
- Press **OK** button while the Format Disk option is highlighted. A menu will appear on the screen, requiring you to enter a pin number. If you have not changed the pin number, the factory default is 0000. After you enter the pin, a pop-up menu appears on the screen to ensure that the hard disk should be formatted, select "YES" and press OK to format the hard disk. Select "NO" and press OK to cancel. Ensure you back up important recordings before you format the USB disk unit.

Hard Disk Info

To view the details about the USB disk, highlight Hard Disk Info by using "▼" or "▲" key and press **OK**. USB disk information will be displayed

Configuring Date/Time Settings

Select **Date/Time** in the Settings menu to configure Date/Time settings. Press **OK** button.



- Use "▼" or "▲" buttons to highlight **Date/Time**.

Date, Time, Time Settings Mode and Time Zone Setting will be available.

Use "▲" or "▼" buttons to highlight the Time Settings Mode. Time Settings Mode is set using "◀" or "▶" buttons. It can be set to AUTO or MANUAL.

When AUTO is selected, Date/Time and Time Zone options will not be available to be set. If MANUAL option is selected as the Time Zone can be altered:

- By pressing "▲" or "▼" buttons select Time Zone.

Use "◀" or "▶" buttons to change the Time Zone between GMT-12 or GMT+12. Date/Time on the top of the menu list will then change according to the selected Time Zone.

- Changes are automatically stored. Press "**MENU**" to exit.

Configuring Source Settings

You can enable or disable selected source options. The TV will not switch to the disabled source options when "**SOURCE**" button is pressed.



- Select **Sources** in the Settings menu and press **OK** button.
- Press “▼” or “▲” buttons to select a source.
- Use “◀” or “▶” button to enable or disable the selected source. Changes are automatically stored.

Configuring IP Settings (Optional)

Using IP Settings window you can set IP address and DNS servers of the TV set. IP address can be either static or dynamic. Static means that the address that you know is given by the service supervisor. Also Subnet mask, Default Gateway and DNS Server's IP addresses should be set correctly.



If the IP address is not known or if a specific IP is not used, you can select the Configuration Status as Dynamic. With this selection, all settings are taken from service supervisor and addresses are displayed on this menu.

IP address and DNS Server settings' can be edited if Static is selected. If Dynamic is selected, these will not be available.

To set an IP address please press RED and to change DNS servers please press YELLOW button.

To save and exit all settings, press BLUE button.

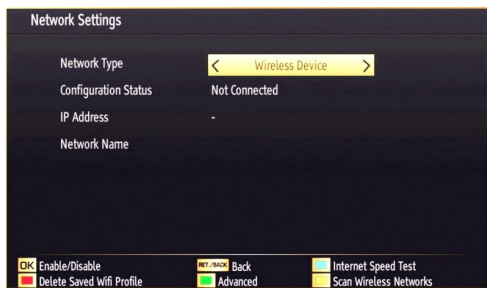
This menu is functional if an Internet connection is present and if the ethernet cable is plugged.

If a connection problem occurs or the TV does not connect to the Internet, menu screen will be displayed as above and all address lines will be blank.

To disable the connection, please select configuration status as disabled.

Wi-Fi Settings (Optional)

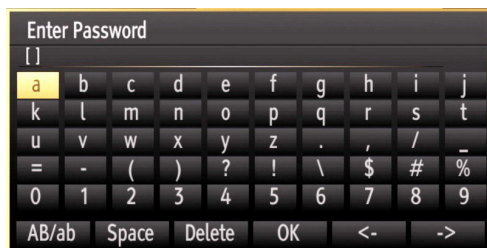
Wi-Fi feature can be used for a wireless network connection (optional). The feature is used for infrastructure purposes only, such as connecting to the web, hbb sites and connecting with DLNA servers (optional). Select Wireless Device option to switch to Wireless Settings from Network Settings window.



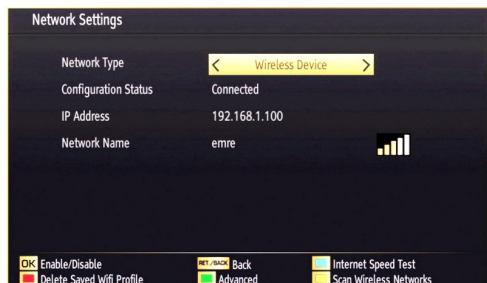
Press **GREEN** button to switch to advanced mode and then press **OK** button to edit settings.

To enable Wi-Fi feature, profiles should be configured properly. Please plug in the Wi-Fi dongle to one of the USB ports (IMPORTANT: “Veezy 100” USB dongle is required to use wireless network feature. To use your TV with your wireless network, you need a “Veezy 100” Wireless USB dongle.).

Press **YELLOW** button to scan wireless network from network settings menu. Afterwards available network list will be displayed. Please select your desired network from the list. If the selected network is protected with a password, please enter the correct key by using the virtual keyboard. You can use this keyboard via navigation buttons (Left/Right/Up/Down) and **OK** button on the remote control. Wait until the IP the address is shown on the screen.



This means that the connection is now established. To disconnect from a wireless network, you should highlight **Configuration Status** and press **OK**.



You can navigate between menu tabs by pressing left/right buttons. The help bar on the bottom of the dialog shows features that you may use. Press **BLUE** button to check your internet connection speed.

You can check the signal strenght by using the network settings menu for the wireless device mode.

Information

Configuration Status: Displays wi-fi status as connected or not connected.

IP Address: Displays the current IP address.

Network Name: Connected networks' name will be displayed.

Delete Saved Wifi Profiles

Saved profiles will be deleted if you press red button while wireless device selection osd is on the screen.

Connecting to your Cell Phone via WiFi (Optional)

- If your cell phone has WiFi feature, you can connect your cell phone to your TV by using WiFi connection via a router, in order to play content from your phone. For this, your cell phone must have an appropriate sharing software.
- Connect to your router following the steps stated above in the Wireless Connection section.
- Afterwards, engage your cell phone with the router and then activate sharing software on your cell phone. Then, select files that you would like to share with your TV.
- If the connection is established correctly, you should now access the shared files of your cell phone via the Media Browser of your TV.
- Enter Media Browser menu and playback device selection OSD will be displayed. Select your cell phone's ident and press **OK** to continue.

Note: This feature may not be supported by some cell phones.

Configuring Other Settings

To view general configuration preferences, select **Other Settings** in the Settings menu and press **OK** button.



Operation

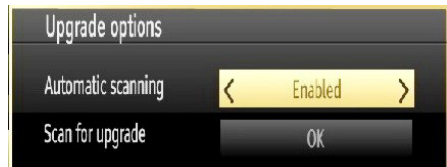
- Press “▼” or “▲” buttons to select an item.
- Use “◀” or “▶” button to set an option.
- Press **OK** button to view a sub-menu.

Menu Timeout: Changes timeout duration for menu screens.

Scan Encrypted: When this setting is on, search process will locate the encrypted channels as well. If it is set as **Off**, encrypted channels will not be located in automatic search or manual search.

Blue Background: Activates or deactivates blue background system when the signal is weak or absent.

Software Upgrade: To ensure that your TV always has the most update information, you can use this setting. In order for the proper operation, please ensure that the TV is set to standby mode.



You can enable or disable automatic upgrade by setting **Automatic Scanning** option.

You can manually search for new software by selecting **Scan for upgrade**.

Application version: Displays the current application version.

Hard of Hearing: If the broadcaster enables any special signal concerning the audio, you can set this setting as On to receive such signals.



Audio Description: Audio description refers to an additional narration track for blind and visually impaired viewers of visual media, including television and movies. The description narrator talks through the presentation, describing what is happening on the screen during the natural pauses in the audio (and sometimes during dialogue, if deemed necessary). You can use this feature, only if the broadcaster supports that additional narration track.

Auto TV Off: You can set the timeout value of auto off feature. After the timeout value is reached and the TV is not operated for selected time, the TV will go off.

Standby Search (optional): Use “▼” or “▲” button to select Standby Search and then press “◀” or “▶” button to set this setting as On or Off. If you change Standby Search to Off, this function will be unavailable. To use Standby Search please make sure that you select Standby Search as On.


Other Features

Displaying TV Information: Programme Number, Programme Name, Sound Indicator, time, teletext, channel type and resolution information is displayed on the screen when a new programme is entered or “INFO” button is pressed.

Mute Function: Press “” button to disable sound. Mute indicator will be displayed in the upper side of the screen. To cancel mute, there are two alternatives; the first one is pressing the “” button and the second one is increasing the volume level.

Picture Mode Selection: By pressing **PRESETS** button, you can change **Picture Mode** settings in accordance with your viewing requirements. Available options are Dynamic, Natural, Cinema and Game.

Displaying Subtitles: You can enable subtitles by pressing the **SUBTITLE** button of the remote control. Press **SUBTITLE** button again to disable subtitle function.

If “Subtitle” is On, pressing the “” button causes the following warning message to be displayed on the screen (** for UK only)

Interactive services are not available while subtitles are on.
Would you like to turn subtitles off now?


Yes

No

Teletext

Teletext system transmits information such as news, sports and weather on your TV. Note that is the signal degrades, for example in poor/adverse weather conditions, some text errors may occur or the teletext mode may be aborted.

Teletext function buttons are listed below:

“” **Teletext / Mix** : Activates teletext mode when pressed once. Press again to place the teletext screen over the programme (mix). Pressing again will quit the teletext mode.

“**BACK**” **Index:** Selects the teletext index page.

“**INFO**” **Reveal:** Shows hidden information (e.g. solutions of games).

“**OK**” **Hold:** Holds a text page when convenient. Press again to resume.

“◀”/“▶” **Subcode Pages:** Selects subcode pages if available when the teletext is activated.

P+ / P- and numbers (0-9): Press to select a page.

Note: Most TV stations use code 100 for their index pages.

Coloured Buttons (RED/GREEN/YELLOW/BLUE)

Your TV supports both **FASTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics. When **FASTEXT** system is available, sections in a teletext page will become colour-coded and can be selected by pressing the coloured buttons. Press a coloured button that corresponds to with your needs. The coloured writings will appear, showing you which coloured buttons to use when **TOP text** transmission is present. Pressing “▼” or “▲” commands will request the next or previous page respectively.

Tips

Screen Care: Clean the screen with a dry, soft cloth. Do not use abrasive solvents as they may damage the coating layer of the TV screen. For your safety, unplug the mains plug when cleaning the set. When moving the TV, hold it properly from the bottom part.

Image Persistence: Please note that ghosting may occur while displaying a persistent image. LED TVs' image persistence may disappear after a short time. Try turning off the TV for a while.


To avoid this, do not leave the screen in still picture for extended periods.

No Power: If your TV system has no power, please check the main power cable and connection to the mains socket outlet.

Poor Picture: Have you selected the correct TV system? Is your TV set or house aerial located too close to a non-earthed audio equipment or neon

lights, etc.? Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial. Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. Please retune the channels. The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture: Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer. No Picture means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more. Also make sure the correct input source has been selected.

Sound: You can not hear any sound. Did you perhaps interrupt the sound, pressing the  button? Sound is coming from only one of the speakers. Is the balance set to one extreme? See **Sound Menu**.

Remote Control: Your TV no longer responds to the remote control. Perhaps the batteries are exhausted. If so you can still use the local buttons on the TV.

Input Sources: If you cannot select an input source, it is possible that no device is connected. Check the AV cables and connections if you have tried to connect a device.

Recording Unavailable: To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. Otherwise, recording feature will not be available. If you cannot perform recording, try switching off the TV and then re-inserting the USB device while the TV is switched off.

USB Is too Slow: If "USB is too slow" message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

Wireless Network Not Available: Ensure that the firewalls of your network allows the TV wireless connection. "Veezy 100" usb wifi dongle(sold separately) should be plugged properly (if available). If the wireless network does not function properly, try using the wired network in your home. Refer to the Wired Connection section for more information on the process.

If the Net TV does not function, check the modem (router) first. If the router does not have a problem, check the internet connection of your modem.

Try searching for wireless networks again, using the Network Settings menu screen.

Connection is Slow: See the instruction book of your wireless modem to get information on the internal service area, connection speed, signal quality and other settings. You need to have a high speed connection for your modem.

Distruption during playback or slow reactions:

You could try the following in such a case: Keep at least three meters distance from microwave ovens, mobile telephones, bluetooth devices or any other Wi-Fi compatible devices. Try changing the active channel on the WLAN router.

Internet Connection Not Available / DLNA Mode

Not Operating: If the MAC address (a unique identifier number) of your PC or modem has been permanently registered, it is possible that your TV might not connect to the internet. In such a case, the MAC address is authenticated each time when you connect to the internet. This is a precaution against unauthorized access. Since your TV has its own MAC address, your internet service provider cannot validate the MAC address of your TV. For this reason, your TV cannot connect to the internet. Contact your internet service provider and request information on how to connect a different device, such as your TV, to the internet.


It is also possible that the connection may not be available due to a firewall problem. If you think this causes your problem, contact your internet service provider. A firewall might be the reason of a connectivity and discovery problem while using the TV in DLNA mode or while browsing via DLNA.

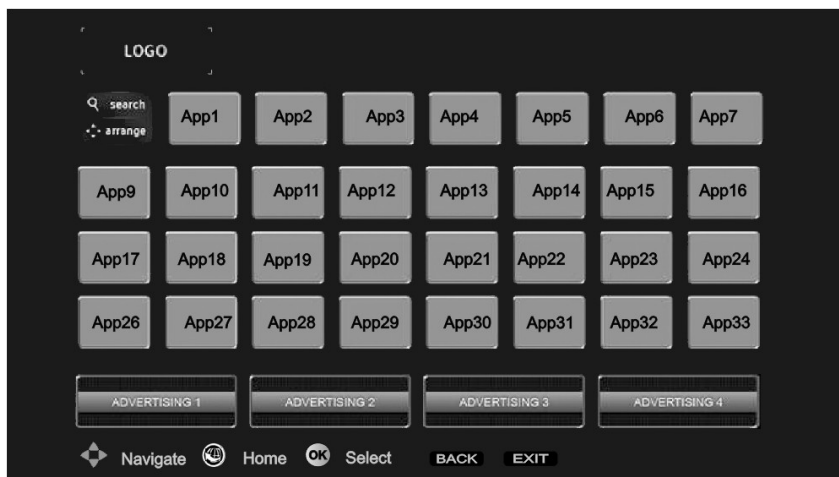
Invalid Domain: Ensure that you have already logged on to your PC with an authorized username/password and also ensure that your domain is active, prior to sharing any files in your DLNA server program on your PC. If the domain is invalid, this might cause problems while browsing files in DLNA mode.

Appendix A: INTERNET PORTAL

You can access PORTAL mode using your TV. To do this, an active internet connection is required. Follow the steps on Connecting to a Wired/Wireless(optional) Network section to connect your TV to internet. After the connection is established, you can select or view portal options.

Note: Broadband internet connection is required for high quality viewing. Ensure that the internet connection is made properly. You must set the Country and Language data correctly in the First Time Installation for the proper operation of internet portal.

Press “” button on your remote control and portal application options will be displayed. Application options will be displayed as the template below. Available applications' contents may change depending on the application content provider.



Select a link or application using the Left and Right or Up or Down buttons and press OK to activate.

- Use Up/Down and Left/Right buttons to navigate between the items on Portal screen.
- Press **OK** button to confirm your selection.
- Press **BACK** to go to the previous screen.
- Press **EXIT** to quit internet portal mode.

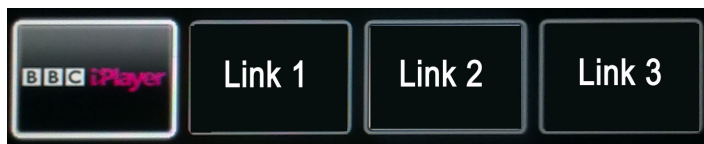
Note: Possible application dependent problems may be caused by the content service provider.

Appendix B: BBC iPlayer Launch

You can access BBC iPlayer using your TV. To do this, an active internet connection is required. Follow the steps on Connecting to a Wired/Wireless(optional) Network section to connect your TV to internet. After the connection is established, you can select BBC iPlayer among the portal options.

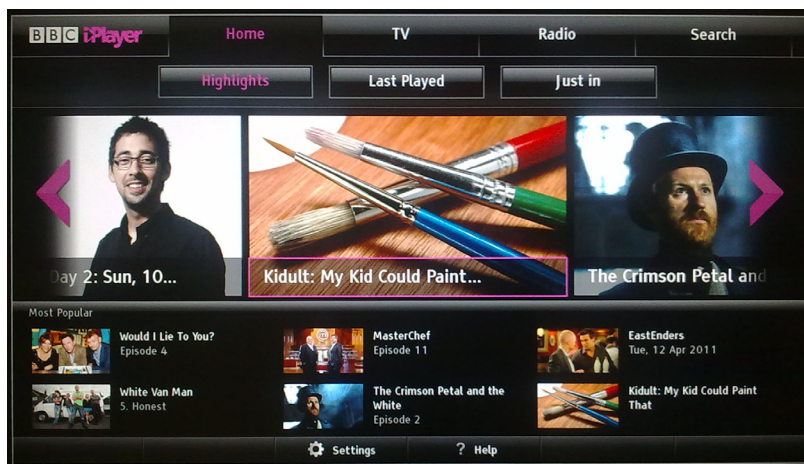
Note: Broadband internet connection (minumum 2mbps) is required for high quality viewing.

Press  button on your remote control and portal options will be displayed.






Select BBC iPlayer using the Left and Right buttons and press OK to activate. iPlayer will start after a short while:

- Use Up/Down and Left/Right buttons to navigate between the items on iPlayer screen.
- Press OK button to confirm your selection.



Playing a Programme via iPlayer

- Select a programme and press OK button. The programme playback will begin.
- You can press  button to pause a programme. Press  to resume the playback.
- Use  button to stop the playback.
- Press MENU button to exit iPlayer. Press RETURN button for going back to the previous screen.

Note: "Episode is unavailable." message may be displayed on the screen if a problem occurs during the playback.

Searching a Programme

Highlight the Search tab using the navigation buttons and press OK button. Use the virtual keyboard to type letters. To do this, select letters and press OK button. When finished, highlight Search option and press OK button.

Appendix A: PC Input Typical Display Modes

The display has a maximum resolution of 1920 x 1080. The following table is an illustration of some of the typical video display modes. Your TV may not support different resolutions. Supported resolution modes are listed below. If you switch your PC to an unsupported mode, a warning OSD will appear on the screen.

Index	Resolution	Frequency (Hz)
1	640x480p - VGA	59
2	640x480p - VGA	72
3	640x480p - VGA	75
4	640x480p - VGA	85
5	800x600p - SVGA	56
6	800x600p - SVGA	60
7	800x600p - SVGA	72
8	800x600p - SVGA	75
9	800x600p - SVGA	85
10	1024x768p - XGA	60
11	1024x768p - XGA	60
12	1024x768p - XGA	66
13	1024x768p - XGA	70
14	1024x768p - XGA	75
15	1024x768p - XGA	84
16	1152x864p	75
17	1280x1024p - SXGA	75
18	1280x1024p - SXGA	85
19	1280x1024p - SXGA	60
20	1280x768p - WXGA	59
21	1280x768p - WXGA	59
22	1280x768p - WXGA	74
23	1280x768p - WXGA	84
24	1280x960 - WXGA	60
25	1280x960p - WXGA	85
26	1360x768p - WXGA	60
27	1360x768p - WXGA	60
28	1400x1050p - SXGA+	74
29	1600x1200p - UXGA	60
30	1920x1080p	59

Appendix B: AV and HDMI Signal Compatibility (Input Signal Types)

Source	Supported Signals		Available
EXT-1 (SCART 1)	PAL 50/60		O
	NTSC 60		O
	RGB 50		O
	RGB 60		O
EXT-2 (SCART-2)	PAL 50/60		O
	NTSC 60		O
	RGB 50		X
	RGB 60		X
FAV (SIDE AV)	PAL 50/60		O
	NTSC 60		O
YPbPr	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
HDMI1 HDMI2 HDMI3 HDMI4	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
	1080P	24Hz	O

(X: Not Available, O: Available)

In some cases a signal on the LED TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Appendix C: Supported DVI Resolutions

When connecting devices to your TV's connectors by using DVI converter cables (not supplied), you can refer to the following resolution information.

	24Hz	25Hz	30Hz	50Hz	60Hz
480i					☑
480p					☑
576i				☑	
576p				☑	
720p				☑	☑
1080i				☑	☑
1080p	☑	☑	☑	☑	☑

Appendix D: Supported File Formats for USB Mode

Media	File Extension	Format		Remarks (Maximum resolution/Bit rate etc.)
		Video	Audio	
Movie	.mpg, .mpeg	MPEG1/2	MPEG1 Layer 1/2/3	MAX 1920x1080 @ 30P 20Mbit/sec
	.dat	MPEG1	MPEG1 Layer 1/2	
	.vob	MPEG1/2	AC-3, MPEG1 Layer 1/2, DVD-LPCM	
	.mkv	H.264, MPEG2/4, VC-1	MPEG1 Layer 1/2/3, AAC, EAC-3/AC-3	
	.mp4, m4v	MPEG4, H.264, H.263	AAC, EAC-3/AC-3	
	.avi	XVID	MPEG1 Layer 1/2/3, AC-3, LPCM, WMA	MAX 1920x1080 @ 30P 20Mbit/sec Most QuickTime streams appear to be MPEG-4 Part 12
	.mov	MPEG4, H.264, H.263	AAC, EAC-3/AC-3	
	.asf, .wmv	VC-1	WMA	MAX 1920x1080 @ 30P 20Mbit/sec
Music	.mp3	-	MPEG 1 Layer 1/2/3 (MP3)	
	.wma		WMA	
	.wav		LPCM	
	.m4a		AAC	
Photo	.jpg .jpeg	Baseline JPEG		MAX WxH = 14592x12288 Up to 8 MegaByte

Note: Supported DLNA file formats are same with the USB mode's.

Appendix E: Software Upgrade

- Your TV is capable of finding and updating new software upgrades over broadcast channels.
- For broadcast channels search, TV looks the available channels stored in your settings. So before software upgrade search, it is advised to auto search and update all available channels.

1) Software upgrade search via user interface

- It is possible manually to check if there is a new software upgrade for your TV set.
- Simply navigate on your main menu. Choose **Settings** and select **Other Settings** menu. In **Other Settings** menu navigate on to the **Software Upgrade** item and press **OK** button to open **Upgrade Options** menu.
- In **Upgrade Options** menu select **Scan for upgrade** and press **OK** button.
- If a new upgrade is found, it starts to download the upgrade. A progress bar indicates the remaining download progress. When download completes with success a message is displayed for reboot to activate new software. Press **OK** to continue with the reboot operation.

2) Background search and upgrade mode

- While TV is connected to Internet, in background it searches for critical software upgrades. If a critical software upgrade is found it downloads the upgrade silently. When download completes with success a message is displayed for reboot operation to activate new software. Press OK to continue with the reboot operation.

3) 3.AM search and upgrade mode

- If **Automatic scanning** in **Upgrade Options** menu is enabled, TV wakes up at 03:00 and searches broadcast channels for new software upgrade. If new software is found and downloaded successfully, with next power up TV opens with new software version.

Note on reboot operation: Reboot is the last step in software upgrade operation if download of new software is finished successfully. During reboot TV makes final initializations. In reboot sequence panel power is closed and front led indicates the activity with blinking. Around 5 minutes later TV restarts with new software activated.

- If your TV fails to restart in 10 minutes, unplug power for 10 minutes and re-plug again. TV should open with new software safely. If you still can not get TV working, please kindly repeat unplug and plug sequence a few times more. If your set still can not operate, please call the service personnel to fix the problem for you.

Caution: While led is blinking during reboot do not unplug your TV's power. Doing this may cause your TV not to re-open again and can only be fixed by service personnel.

Manual Software Update

Ensure that the ethernet cable is connected to your TV. If the ethernet cable is connected to the TV, ensure that the TV is receiving.

Menu -> Settings -> Network Settings -> Configuration Status -> Connected

Go to Settings tab from the main menu and select Other Settings. Highlight Software Upgrade and press OK. Select Scan for Upgrade and press OK button.

An OSD screen including the progress bar will be visible under the Software upgrade" title.

A warning screen will be displayed on the screen, stating that the TV will be rebooted. Press OK button to finalize upgrade process and reboot TV.

Appendix H: Nero MediaHome Installation

This software is compatible with Windows XP and Windows 7.

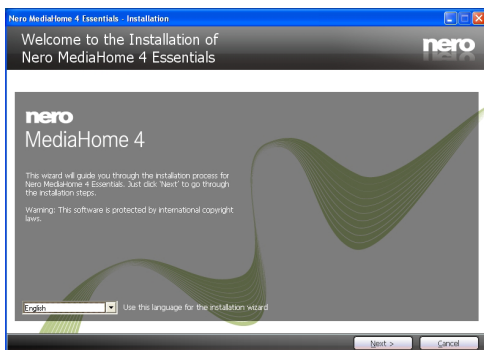
To install Nero MediaHome, please proceed as follows:

Note: To use DLNA function, this software should be installed to your PC.

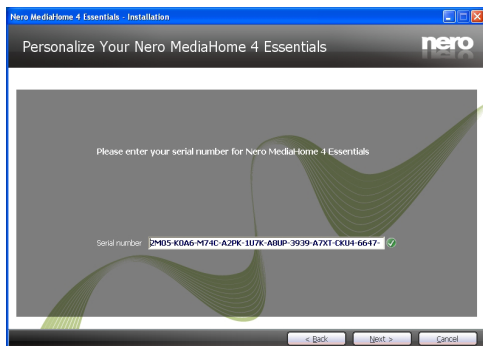
1. Insert the Nero MediaHome installation disc in your optical disc drive.
 - The Nero MultiInstaller screen with a button to start the installation process will open automatically.
 - If below window is not displayed automatically, double-click on the file SetupX located on the Nero MediaHome installation disc.



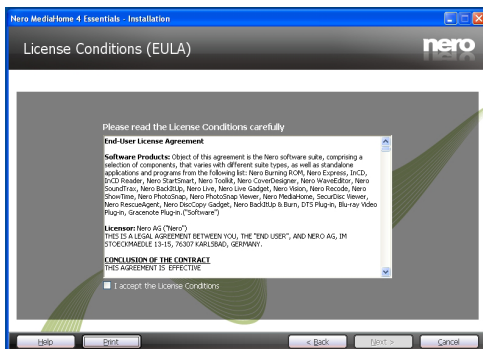
2. Click on the button labeled Nero MediaHome Essentials to start the installation process.
 - The Nero MediaHome installation wizard is displayed.
 - If necessary change installation language from the language selection menu before continuing.



3. Click the Next button.
 - The integrated serial is displayed.
 - Please do not change displayed serial.

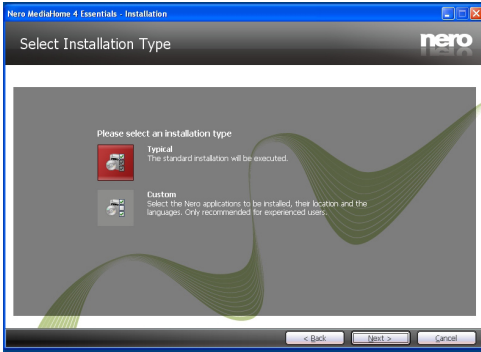


4. Click the Next button.
 - The License Conditions (EULA) screen is displayed.



5. Please read the license agreement carefully and select the appropriate check box if you agree to the terms of the agreement. Installation is not possible without this agreement.
6. Click the Next button.
 - The Select Installation Type screen is displayed.

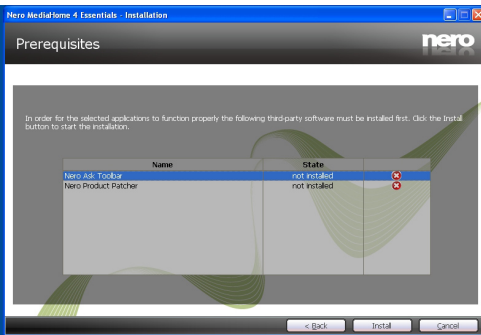
It is possible to choose between Typical, meaning standard installation, or Custom installation. User defined installation allows you to determine languages to be installed and to choose the installation path.



7. Use Typical installation and click the Next button.

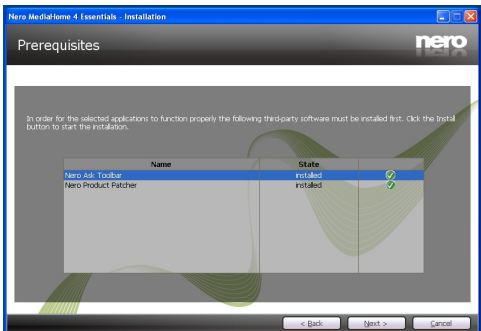
- The Prerequisites screen is displayed.

The Nero MediaHome installation wizard checks the availability of required third-party software on your PC. If applications are missing they are listed and must be installed before continuing installation.



8. Click the Install button.

- As soon as all prerequisites are installed, the Install button will change to a Next button.



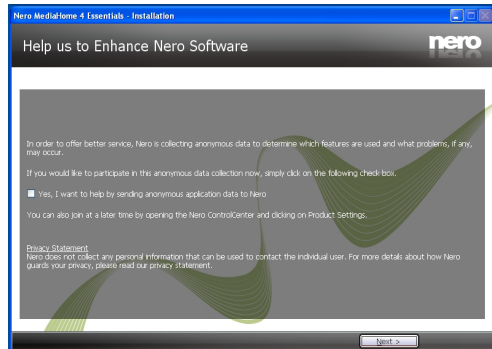
9. Click the Next button.

- The Ready to Start Installation Process screen is displayed, installation begins and finishes automatically. A progress bar informs you of the progress of the installation process.



10. Installation finishes.

The Help us to Enhance Nero Software screen is displayed. In order to offer a better service, Nero is collecting anonymous data to determine which features are used and what problems, if any, occur.



11. If you would like to help by participating in the anonymous collection of usage data, select the check box and click the Next button.

- The final screen of the installation wizard is displayed.

12. Click the Exit button.

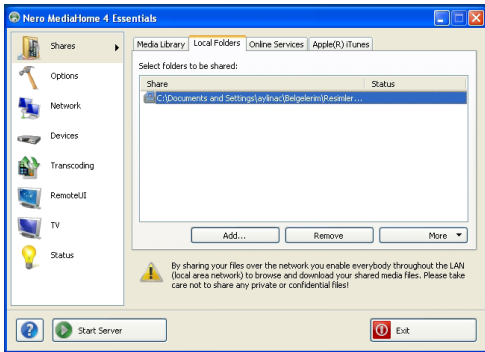


13. A shortcut called Nero MediaHome 4 is now placed on your desktop

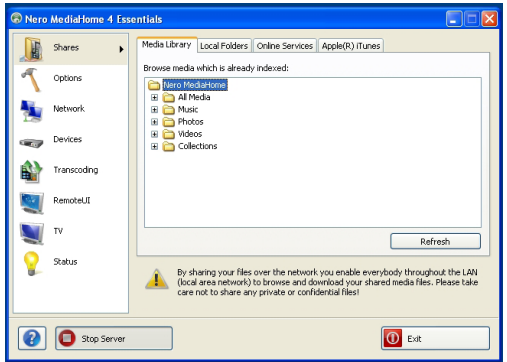
Congratulations! You successfully installed Nero MediaHome 4 on your PC.

14. Run Nero MediaHome by pressing shortcut icon.

- Click ADD icon from LOCAL FOLDERS to add the folder you want to share with the network. Select the folder that you want to share and click START SERVER.



15. You can display all media types from the library. Click Refresh icon to refresh. Click STOP SERVER icon to stop server.



Specifications

TV BROADCASTING

PAL/SECAM B/G D/K K' I/I' L/L'

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

NUMBER OF PRESET CHANNELS

10.000

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

220-240V AC, 50 Hz.

AUDIO OUTPUT POWER (W_{RMS}) (10% THD)

2 x 8

POWER CONSUMPTION (W)

135 W (max)

PANEL

16:9 display, 46" Screen Size

DIMENSIONS (mm)

DxLxH (With stand): 221 x 1103 x 701

Weight (Kg): 17,75

DxLxH (Without stand): 40 x 1103 x 671

Weight (Kg): 16,50

Digital Reception (DVB-T)

Transmission Standards:

DVB-T, MPEG2,DVB-T, MPEG4 HD

i. DEMODULATION

- Symbol rate: COFDM with 2K/8K FFT mode.
- Modulation: 16-QAM - 64-QAM FEC for all DVB modes (automatically found)
- MHEG-5 ENGINE compliant with ISO/IEC 13522-5 UK engine Profile (UK only)
- Object carousel support compliant with ISO/IEC 135818-6 and UK DTT profile(UK only)
- Frequency range: 474-850 MHz for UK models

ii. VIDEO

- H.264 (MPEG-4 part 10) main and high profile level 4.1/MPEG-2 MP@HL video decoder.
- HD display multi format capable (1080i, 720p, 576p)
- CVBS analogue output.(In HD channels, this will not be available

iii. AUDIO

- MPEG-1 layer I/II, MPEG-2 layer II, AAC, HEAAC, AC3, E-AC3
- Sampling frequencies supported are 32, 44.1 & 48 kHz

Digital Reception (DVB-C)

Transmission Standards:

DVB-C, MPEG2, DVB-C, MPEG4

i. DEMODULATION

- Symbolrate: 4.0 Msymbols/s to 7.2 Msymbols/s
- Modulation: 16-QAM , 32-QAM ,64-QAM, 128-QAM and 256-QAM

ii. VIDEO

- All MPEG2 MP@ML formats with up-conversion and filtering to CCIR601 format.
- CVBS analogue output

iii. AUDIO

- All MPEG1 Layer 1 and 2 modes
- Sampling frequencies supported are 32, 44.1 & 48 kHz.

Digital Reception (DVB-T2)

i. DEMODULATION

- QPSK, 16QAM, 64QAM, 256QAM with 1k, 2k, 4k, 8k, 16k, 32k FFT mode

Frequency Band

- UHF/ VHF

Channel BW

- 8 MHz /7MHz

Profiles

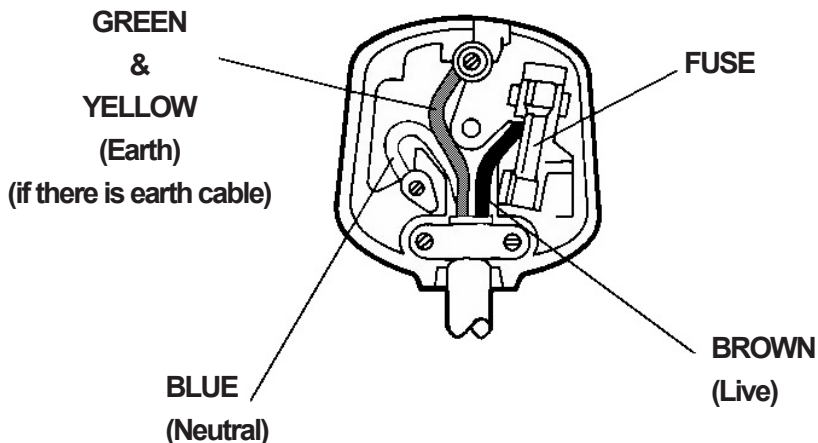
- MPEG-4 H.264/AVC HP@L 4.0, MP@L 4.0 (HD)
- H.264/AVC MP@L 3 .2, HP@L 3 .2 (SD)
- MPEG-2 MP@HL, MP@ML (SD)

Important Instruction

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.

MAINS (AC) OPERATION

The wires in the mains lead are coloured in accordance with the following code :



IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured brown or red must be connected to the terminal which is marked with the letter L or coloured Red.

For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 5A 250VAC fuse).

CAUTION

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SAFETY PRECAUTION

THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.

www.finluxdirect.com
Customer helpline: 0845 459 5282

